

# MEMPHIS STATE UNIVERSITY BULLETIN

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# MEMPHIS STATE UNIVERSITY

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*Member of:*

The Southern Association of Colleges and Secondary Schools

The Association of American Colleges

The American Association of Colleges for Teacher Education

The National Council for Accreditation of Teacher Education

The American Council on Education

The National Collegiate Athletic Association

The Tennessee College Association

*The Forty-Ninth Session Will Open*

*Thursday, September 8, 1960*

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## CALENDAR, 1960-61

1960

SEPTEMBER

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

NOVEMBER

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OCTOBER

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DECEMBER

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1961

JANUARY

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MAY

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FEBRUARY

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JUNE

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MARCH

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JULY

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APRIL

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AUGUST

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20	21	22	23	24	25	26
27	28	29	30	31		

**MEMPHIS STATE UNIVERSITY  
CALENDAR 1960-61**

**First Semester**

Thursday, September 8—Orientation of New Evening Students, 7:00 P.M. Auditorium  
Friday, September 9—University Faculty Meeting, 9:00 A. M., Johnson Hall  
Friday, September 9—Registration of Evening Students, 6:00 P.M.  
Saturday, September 10—Registration of Graduate Students, 8:00-12:00 A. M.  
Monday and Tuesday, September 12-13—Counseling and Registration of Freshmen  
Wednesday and Thursday, September 14-15—Registration of Upper-classmen  
Friday, September 16—Classes Meet as Scheduled  
Friday, October 7—West Tennessee Education Association (holiday)  
Friday, November 11—Veteran's Day (holiday)  
Monday, November 14-19—Mid-semester Examinations  
Thursday, November 24-28—Thanksgiving Holidays (inclusive)  
Saturday, December 17—January 2—Christmas Holidays (inclusive)  
Thursday, January 26—January 31—Final Examinations, First Semester Ends  
Friday, February 3—Convocation, 7:30 P.M.—Auditorium

**Second Semester**

Saturday, February 4—Registration of Graduate Students  
Monday, February 6—Registration of Evening Students—6:00 P.M.  
Tuesday, Wednesday, February 7-8—Counseling and Registration of Undergraduates  
Thursday, February 9—Classes Meet as Scheduled  
Thursday, March 23-29—Mid-Semester Examinations  
Thursday, March 30—April 2—Easter Holidays (inclusive)  
Monday, May 29—June 1—Final Examinations.—Second Semester Ends.  
Saturday, June 3—Convocation—10:00 A.M. Field House

**Summer Session (Nine Weeks)**

Tuesday, June 13—Registration for Beginning Freshmen—8:00 to 12:00  
Tuesday, June 13—Registration—Graduate Students—1:00 to 4:00 P.M.  
Wednesday, June 14—Registration—Current and Former Students  
Thursday, June 15—Classes Meet as Scheduled  
Tuesday, July 4—Holiday  
Thursday, August 10—Examinations  
Friday, August 11—Convocation—6:00 P.M.—Johnson Hall Court

**STATE BOARD OF EDUCATION**

Governor Buford C. Ellington .....	Nashville
Commissioner Joe Morgan .....	Nashville
Hon. Ernest C. Ball .....	Memphis
Hon. Edward L. Jennings .....	Liberty
Hon. T. R. Keys .....	Erwin
Hon. Clarence Kolwyck .....	Chattanooga
Hon. W. R. Landrum .....	Trenton
Mrs. Bernard A. McDermott .....	Nashville
Hon. J. Howard Warf .....	Hohenwald
Hon. James Williams .....	Henderson
Mrs. Sam Wilson .....	Loudon

**UNIVERSITY ADMINISTRATION****ADMINISTRATIVE OFFICERS**

\*J. Millard Smith, B.S., M.A. .... *President, President Emeritus*  
 Cecil C. Humphreys, B.S., M.A., Ph.D. .... *Acting President, President*  
 R. M. Robison, B.A., M.A. .... *Dean*  
 Lamar Newport, B.A., M.S. .... *Bursar*  
 Flora Rawls, B.A., M.A. .... *Dean of Women*  
 R. P. Clark, B.S., M.A. .... *Registrar*  
 George B. Pratt, B.S., M.A. .... *Dean of Men*

**DIRECTORS OF SCHOOLS**

W. P. Carson, B.A., Ph.B., M.A., Ph.D. .... *Director, School of Arts and Sciences*  
 Edward I. Crawford, B.S., M.S., Ed.D. .... *Director, The School of Business*  
 Heber E. Rumble, B.S., M.A., Ph.D. .... *Acting Director, School of Education*  
 Cecil C. Humphreys, B.S., M.A., Ph.D. .... *Acting Director, Graduate School*  
 Calvin M. Street, B.S., Ed.D. .... *Director, Evening Division*

**ADMINISTRATIVE STAFF**

Mrs. Virginia Anderson. .... *Secretary to the Registrar*  
 Mrs. Mary B. Bradford, B.S., M.A. .... *Regional Supervisor of Instruction*  
 Nolen E. Bradley, Jr., B.S., M.A. .... *Assistant Registrar*  
 Mrs. Nancy Bramlett. .... *Secretary, AF-ROTC*  
 Jack Bugbee. .... *Director of Public Information*  
 Mrs. Raimelle Carter. .... *Secretary to the Dean of Women*  
 Mrs. Joy Cunningham. .... *Certification Clerk, School of Education*  
 Leo Davis, B.A., M.S. .... *Veterans' Coordinator*  
 Mrs. Dorothy Faires. .... *Senior Typist, Bursar's Office*  
 Mrs. Evelyn P. Fisher, B.S. .... *Secretary, The School of Business*  
 Mrs. Ila Freeman. .... *Assistant Hostess, Mynders Hall*  
 Mrs. Lillian Glover. .... *PBX Operator*  
 Mrs. Helen Hansard. .... *Secretary to the Athletic Director*  
 Leon Hardison, B.S., M.A. .... *Assistant to the Registrar*  
 Mary Ann Harrison. .... *Secretary, Graduate School*  
 Mrs. Doris Herzog. .... *Hostess*  
 Ray Herzog. .... *Superintendent of Buildings and Grounds*  
 Caroline Hill. .... *Secretary to the Librarian*  
 Dr. A. G. Hudson. .... *University Physician*  
 Mrs. Ruth Hughes. .... *Senior Statistician*  
 Mrs. Betty Ingram. .... *Secretary, School of Arts and Sciences*  
 William T. Johnson. .... *Assistant to the Cataloger*  
 Mrs. Myrtle Lee. .... *Hostess, Mynders Hall*  
 Ethel Lewis. .... *Secretary to the Dean*  
 Joyce McCall, B.S. .... *Secretary, Physical Education Office*  
 Mrs. Velma May. .... *Hostess, Mynders Hall West*  
 Mrs. Angie Pond. .... *Secretary, Training School*  
 Mrs. Mary Poston. .... *Hostess, Mynders Hall West*  
 Mrs. Novalyn Smothers. .... *Recorder*  
 Mrs. Betty Somerville. .... *Secretary, Alumni Office*  
 Mrs. Barbara Springs. .... *Clerk, Registrar's Office*  
 Mrs. Mary Agnes St. John. .... *Hostess, Student Center*  
 Mrs. Anne L. Taylor. .... *Hostess, Scates Hall*  
 James H. Taylor. .... *Assistant Bursar*  
 Mrs. June Via. .... *Secretary to the Dean of Men*  
 Mrs. Virginia Vickery, B.S. .... *Secretary to the President*  
 Martha Vinson. .... *Secretary, School of Education*

\*Resigned January 1, 1960

Mrs. Martha Walker.....*Secretary to the Registrar*  
 Mrs. Margaret Warno.....*Manager, Book Store*  
 Eunice Whitaker.....*Accounting Clerk*  
 Mrs. Janet Williams.....*Accounting Clerk*  
 Harry Woodbury.....*Alumni Secretary and Director of Public Relations*

## FACULTY COMMITTEES FOR 1959-60

**The President of the University is ex officio a member of all committees.**

**ADMINISTRATIVE:** Administrative Officers and Chairmen of Departments.

**ATHLETIC:** Robison, Curlin, Davis, Coltharp, Humphreys, R. W. Johnson, Mitchell, Newport.

**DESOTO:** Williams, Dana Johnson, Newport, Chairman of Student Government, Editor of the Desoto.

**DISCIPLINE:** Rawls, C. S. Brown, Clark, Haynes, Robison, Pratt.

**ENTRANCE AND CREDITS:** Clark, Kaltenborn, Markle, Roane, Rudolph, Rumble.

**EXTENSION:** Crader, Carson, Clark, Linskie.

**FACULTY TENURE:** Carson, Fox, Haynes, Markle, W. Smith, Chairman of Department concerned.

**LIBRARY:** Evans, Boom, E. L. Brown, Holmes, Jennings, Linskie, McGowan.

**PUBLIC PROGRAMS:** Harris, Mitchell, Newport, Rawls, White.

**RELIGIOUS ACTIVITIES:** Guyton, Fox, Hudson, Commons, Seay.

**SCHOLARSHIPS AND LOANS:** Newport, Evans, Jennings, V. Johnson, Rawls.

**STUDENT ACTIVITIES:** Rawls, Clark, Newport, Roane, Rumble, four class presidents.

**STUDENT ELECTIONS:** Mitchell, Carson, Clark, Rawls, Robison.

**TIGER RAG:** Spencer, Coltharp, Heatherly, Humphreys, Newport, president of student body, editor of Tiger Rag.

# UNIVERSITY FACULTY

1959-60

\*J. MILLARD SMITH (1946).....*President, President Emeritus*  
B.S. (1929), Memphis State College; M.A. (1930), George Peabody  
College for Teachers.

CECIL C. HUMPHREYS (1947).....*Acting President*  
B.S. (1936), M.A. (1938), University of Tennessee; Ph.D. (1957)  
New York University.

WILLIAM CARTER ABBETT (1949).....*Instructor, English*  
B.S. (1948), Memphis State College; M.A. (1949), Vanderbilt Uni-  
versity.

MILDRED B. ALGEE (1953).....*Instructor, Library Service*  
B.S. (1931), Union University; M.A. (1951), George Peabody College  
for Teachers.

✓ CHARLES HENRY ALLGOOD, JR. (1955).....*Associate Professor, Art*  
B.F.A. (1950), M.F.A. (1951), University of Georgia

RUTH B. ALMY (1958).....*Instructor, Geography*  
B.S. (1956), M.A. (1957), Memphis State University.

✓ HOLGER W. ANDERSEN (1949).....*Associate Professor, Psychology*  
B.A. (1926), Nebraska State Teachers College; M.A. (1930), Uni-  
versity of Wyoming; Ph.D. (1937), George Peabody College for  
Teachers.

GEORGE L. ANDERSON (1958).....*Assistant Professor, Air Science*  
B.A. (1937), Erskine College.

SAM ANDERSON (1946).....*Associate Professor, Mathematics*  
B.A. (1929), Southwestern; M.A. (1932), George Peabody College  
for Teachers.

AILEENE H. AYCOCK (1953).....*Assistant Librarian*  
B.S. (1940), Memphis State College; B.S. in Library Science (1941),  
George Peabody College for Teachers.

GEORGE V. AYTON (1957).....*Assistant Professor, Air Science*  
B.A. (1956), Jackson College.

✓ PETER BANNON (1947).....*Professor, English*  
B.A. (1936), M.A. (1937), Ph.D. (1943), State University of Iowa.

MELVIN C. BARBER (1959).....*Instructor, Geography*  
B.S. (1958), Memphis State University; M.A. (1959), George Peabody  
College for Teachers.

✓ WILLIAM B. BARTON, JR. (1958).....*Professor, Philosophy*  
A.B. (1944), Abilene Christian College; S.T.B. (1947), S.T.M. (1948),  
Ph.D. (1955), Harvard University.

JAMES GORDON BEASLEY (1959). *Associate Professor, Physical Sciences*  
B.S. (1951), M.S. (1955), Alabama Polytechnic Institute.

\*Resigned January 1, 1960.

## UNIVERSITY FACULTY—Continued

EUGENE BENCE (1949).....*Associate Professor, Speech*  
B.S. (1933), Memphis State College; M.A. (1949), Northwestern  
University.

AKI K. BERFIELD (1957)...*Instructor, Classical and Modern Languages*  
B.Hum. (1945), LL.M. (1951), University of Mexico.

WILLIAM FRANK BETHANY (1957).....*Instructor, Mathematics*  
B.S. (1957), Memphis State University; M.A. (1958), University of  
Mississippi.

HUGH MYERS BIRMINGHAM, JR. (1959).....*Instructor, English*  
B.Mus. (1951), M.A. (1955), North Texas State College.

AARON M. BOOM (1949).....*Professor, History*  
B.A. (1940), M.A. (1941), University of Nebraska; Ph.D. (1948),  
University of Chicago.

DONALD A. BOYD (1957)...*Assistant Professor, Management and Finance*  
B.S. (1956), Delta State College; M.B.A. (1957), Indiana University.

DORRICE BRATCHER (1949).....*Assistant Librarian*  
B.A. (1939), Mississippi State College; B.L.S. (1945), University of  
Chicago.

WILLIAM A. BROTHERTON (1958)...*Assistant Professor, Industrial Arts*  
B.S. (1948), Memphis State College; M.A. (1951), George Peabody  
College for Teachers.

CARL D. BROWN (1952).....*Professor, Biology*  
B.S. (1947), Oklahoma Baptist University; M.S. (1947), Louisiana  
State University; Ph.D. (1951), Iowa State College.

CHARLES S. BROWN (1940).....*Associate Professor, History*  
B.A. (1931), Union University; M.A. (1940), George Peabody Col-  
lege for Teachers.

E. L. BROWN (1947).....*Librarian*  
B.A. (1931), Berea College; B.S. in L.S. (1935), Peabody Library  
School; M.A. (1938), University of Michigan.

LEON W. BROWNLEE (1952).....*Associate Professor, Education*  
B.S. (1939), Sul Ross State College; M.Ed. (1947), Ph.D. (1952),  
University of Texas.

JAMES GORDON BURROW (1957).....*Assistant Professor, History*  
B.A. (1943), University of Missouri; M.A. (1947), University of  
South Carolina; Ph.D. (1956), University of Illinois.

W. PIERCE CARSON (1950)  
.....*Professor and Director, School of Arts and Sciences*  
B.A. (1915), Furman University; M.A. (1916), University of Chicago;  
Ph.D. (1925), Columbia University.

FRANCES CHANEY (1958).....*Instructor, English*  
B.A. (1940), Arkansas College; M.A. (1944), George Peabody College  
for Teachers.

UNIVERSITY FACULTY—Continued

LOUISE CAMBRON CHAPMAN (1950) . . . *Assistant Professor, Marketing*  
B.S. (1947), Southeast Missouri State College; M.A. (1949), University  
of Iowa.

HELEN W. CHILDERS (1958) . . . . . *Assistant Professor, English*  
B.A. (1935), Southwest Texas State Teachers College; M.A. (1950),  
Ph.D. (1958), George Peabody College for Teachers.

R. P. CLARK (1946) . . . . . *Registrar*  
B.S. (1928), Memphis State College; M.A. (1933), George Peabody  
College for Teachers.

DON P. CLAYPOOL (1956) . . . . . *Associate Professor, Chemistry*  
B.S. (1946), Tulane University; M.S. (1950), Ph.D. (1952), University  
of Kentucky.

JOHN L. COBB (1958) . . . . . *Instructor, Physical Education*  
B.S. (1951), M.A. (1955), Memphis State University.

EDWARD M. COFFMAN (1957) . . . . . *Assistant Professor, History*  
A.B.J. (1951), M.A. (1955), Ph.D. (1959), University of Kentucky.

ELLEN COHEN (1956) . . . . . *Instructor, Psychology*  
B.A. (1943), M.A. (1946), Wellesley College.

R. J. COLTHARP (1945) . . . . . *Professor, Industrial Arts*  
B.A. (1927), Wesmar College; M.S. (1938), Kansas State College.

MOZELLE L. COMMONS (1946) . . . . . *Associate Librarian*  
B.A. (1934), University of Tennessee; B.S. in Library Science (1942),  
Peabody Library School.

JOHN H. CORBET, JR. (1958) . . . . . *Instructor, Geography*  
B.S. (1953), M.A. (1954), Memphis State University.

HARRY C. COTHAM (1958) . . . . . *Instructor, English*  
B.A. (1941), Abilene Christian College; M.A. (1948), Columbia  
University.

E. EARL CRADER (1952) . . . . . *Professor, Education*  
B.S. (1928), Southeast Missouri State College; M.A. (1946), Ph.D.  
(1952), George Peabody College for Teachers.

EDWARD IRWIN CRAWFORD (1946) . . . . .  
. . . . . *Professor and Director, The School of Business*  
B.S. (1916), University of Washington; M.S. (1936), University of  
Southern California; Ed. D. (1946), New York University.

LAWRENCE W. CURBO (1958) . . . . . *Instructor, Accounting*  
B.B.A. (1950), M.B.A. (1950), University of Mississippi; C.P.A.  
(1950), Mississippi.

ZACH CURLIN (1924) . . . . . *Assistant Prof., Health and Physical Ed.*  
B.A. (1941), Vanderbilt University; LL.B. (1919), University of  
Memphis.

LEONARD P. CURRY (1958) . . . . . *Instructor, History*  
B.A. (1951), Western Kentucky State College; M.A. (1956), Uni-  
versity of Kentucky.

## UNIVERSITY FACULTY—Continued

- LEO DAVIS (1939) . . . . . *Associate Professor, Health and Physical Education*  
B.A. (1933), Bethel College; M.A. (1941), George Peabody College  
for Teachers.
- PAUL B. EAHEART (1946) . . . . . *Professor, Music*  
B.S. in Mus. Ed. (1937), Memphis State College; M.A. (1946),  
Northwestern University.
- GEORGE W. EDWARDS (1959) . . . . . *Assistant Professor, Physical Sciences*  
B. Ed. (1943), Southern Illinois University; M.S. (1947), University  
of Oklahoma.
- O. DEAN EHLERS (1956) . . . . . *Assistant Professor, Health and Physical Ed.*  
B.S. (1951), Central College; M.Ed. (1955), University of Missouri.
- LURAD R. ENGLAND (1955) . . . . . *Associate Professor, Curriculum and Instruction*  
B.S. (1938), M.A. (1947), Western Kentucky State College; Ph.D.  
(1952), George Peabody College for Teachers.
- BRODIE TRAVIS ESTES (1951) . . . . . *Instructor, Chemistry*  
B.S. (1947), M.A. (1956), Memphis State College.
- HENRY B. EVANS (1942) . . . . . *Professor, English*  
B.S. (1923), M.A. (1928), Ph.D. (1938), George Peabody College for  
Teachers.
- JOHN FARRIOR (1948) . . . . . *Associate Professor, English*  
B.A. (1939), M.A. (1944), Ph.D. (1954), University of North Carolina.
- VICTOR FEISAL (1959) . . . . . *Instructor, Biology*  
B.S. (1958), Memphis State University.
- J. ROY FITZPATRICK (1954) . . . . . *Assistant Professor, Accountancy*  
B.S. (1947), Tennessee Polytechnic Institute; M.A. (1951), University  
of Kentucky.
- LORETTA FLOYD (1956) . . . . . *Instructor, Health and Physical Education*  
B.S. (1946), Alabama State College for Women; M.A. (1947), New  
York University.
- DEWEY B. FOLDEN, JR. (1949) . . . . . *Assistant Professor, Biology*  
B.S. (1947), B.A. (1948), Morris Harvey College; M.S. (1949), West  
Virginia University.
- RICHARD C. FONTAINE (1957) . . . . . *Assistant Professor, Air Science*  
B.S. (1951), Iowa State University.
- EUGENE H. FOX (1959) . . . . . *Associate Professor, Management and Finance*  
B.S. (1956), Northern State College.
- JESSE W. FOX (1947) . . . . . *Professor, Chemistry*  
B.S. (1931), M.A. (1937), George Peabody College for Teachers.
- JOE B. FRANKLIN (1959) . . . . . *Associate Professor, Music*  
B.S. (1949), University of Cincinnati; M.M.E. (1956), Indiana Uni-  
versity.
- ROGER FRENCH (1956) . . . . . *Instructor, Health and Physical Education*  
B.S. (1956), University of Minnesota; M.A. (1958), Memphis State  
University.

UNIVERSITY FACULTY—Continued

HOWARD E. FRYE (1955).....*Assistant Professor, Geography*  
B.S. (1951), Eastern Michigan University; M.A. (1954), University  
of Michigan.

✓ CHARLES GAISSER (1956).....*Assistant Professor, History*  
B.A. (1949), M.A. (1950), University of Mississippi; Ph.D. (1956),  
Yale University.

ROBERT W. GELINAS (1958).....*Assistant Professor, Art*  
B.F.A. (1957), M.A. (1958), University of Alabama.

✓ JOHN R. GORDON (1947).....*Professor, Sociology*  
B.A. (1929), M.A. (1932), Baylor University; Ph.D. (1951), University  
of Texas.

FRANK H. GOVAN (1956).....*Assistant Professor, Art*  
B.A. (1938), Hendrix College; University of Wisconsin; M.A. (1951),  
Columbia University; One-man exhibition of paintings, New York City:  
Meltzer Gallery, 1953; Feigi Gallery, 1954-55-56.

JAMES WELTON GRUNDY (1958).....*Instructor, Economics*  
B.A. (1952), M.A. (1955), North Texas State College.

✓ PERCY L. GUYTON (1954).....*Professor, Economics*  
B.S. (1927), Mississippi State College; M.B.A. (1932), Northwestern  
University; Ph.D. (1952), Duke University.

✓ RAYMOND H. HAGGH (1950).....*Associate Professor, Music*  
B.Mus. (1949), M.M. (1950), Northwestern University.

\*WILLIAM F. HALCOMB (1956).....*Assistant Professor, Marketing*  
B.S. (1950), Southeast Missouri State College; M.S. (1956), Uni-  
versity of Illinois.

GEORGE J. HARRIS (1947).....*Professor, Music*  
B.A. (1936), Greenville College; M.M. (1947), Northwestern Uni-  
versity.

✓ JOE W. HART (1959).....*Assistant Professor, Sociology*  
B.S. (1952), M.E. (1953), Ed.D. (1960), North Texas State College.

McKINLEY J. HATHAWAY (1959).....*Assistant Professor, Air Science*  
B.S. (1948), Memphis State College; M.A. (1950), George Peabody  
College for Teachers.

✓ RALPH HATLEY (1947).....*Professor, Health and Physical Ed.*  
B.S. (1936), M.A. (1950), University of Tennessee.

GABE C. HAWKINS (1956).....*Professor, Air Science*  
B.S. (1940), Mississippi State College.

HERSCHEL M. HAYES (1952).....*Assistant Professor, Chemistry*  
B.S. (1949), Middle Tennessee State College; M.A. (1950), George  
Peabody College for Teachers.

\*Leave of Absence, 1959-60

## UNIVERSITY FACULTY—Continued

- ✓ ALBERT F. HAYNES, JR. (1954)  
.....*Assistant Professor, Curriculum and Instruction*  
B.S. (1941), M.A. (1954), Memphis State College; Ed.D. (1958), University of Tennessee.
- VELMA B. HEATHERLY (1932)...*Associate Professor, Modern Languages*  
B.S. (1928), M.A. (1932), George Peabody College for Teachers.
- BESS L. HENDERSON (1927)...*Associate Professor, Home Economics*  
B.S. (1921), George Peabody College for Teachers; M.A. (1927), Teachers College, Columbia University.
- HERBERT A. HERMANN (1957)...*Instructor, Music*  
B. Mus. (1951), M.M. (1953), Indiana University.
- JOHN R. HIRSCHMANN (1956)...*Instructor, Industrial Arts*  
B.S. (1953), Memphis State College; M.A. (1958), George Peabody College for Teachers.
- ✓ ELMORE HOLMES (1947)...*Professor, Chemistry*  
B.S. (1922), Princeton University; M.A. (1926), Columbia University; Ph.D. (1947) University of Tennessee.
- PAUL W. HORN (1958)...*Assistant Professor, Psychology*  
B.A. (1951), Yale University; M.A. (1958), Vanderbilt University.
- ✓ ELMO H. HOWELL (1957)...*Assistant Professor, English*  
B.A. (1940), University of Mississippi; M.A. (1948), Ph.D. (1955), University of Florida.
- BETTY HULL (1959)...*Instructor, Health and Physical Education*  
B.S. (1956), Memphis State University.
- ✓ CECIL C. HUMPHREYS (1947)  
*Prof., Phys. Ed., Director of Athletics, Acting Director of Graduate School*  
B.S. (1936), M.A. (1938), University of Tennessee; Ph.D. (1957), New York University.
- ✓ CHARLES CARROLL IJAMS (1947)...*Professor, Physics*  
B.A. (1936), Union University; M.S. (1937), Ph.D. (1941), Vanderbilt University.
- ✓ FLORENCE V. ILLING, R.N. (1951)...*Director of Health Services*  
G.N. (1936), School of Nursing, Medical College of South Carolina; B.S. (1950), George Peabody College for Teachers; M.A. (1953), Memphis State College.
- WILLIAM ROBERT INGRAM (1957)...*Assistant Professor, Marketing*  
B.S. (1956), Arkansas Polytechnic College; M.B.A. (1957), University of Arkansas.
- PHILLIP JAMES (1957)...*Instructor, English*  
B.A. (1940), Arkansas College; M.A. (1946), University of Chicago.
- ✓ R. W. JENNINGS (1951)  
.....*Professor, Secretarial Science and Office Management*  
B.S. (1927), University of Iowa; M.A. (1928), Ph.D. (1949), University of Kentucky.

UNIVERSITY FACULTY—Continued

- WILLIAM T. JESSEN (1958).....*Assistant Professor, Air Science*  
B.S. (1949), University of Arkansas.
- DANA DOANE JOHNSON (1954).....*Professor, Art*  
B.A. (1937), Dartmouth; M.Ed. (1947), Ed.D. (1954), Boston University.
- GLENN ALBERT JOHNSON (1956)  
.....*Instructor, Health and Physical Education*  
B.A. (1924), Huntington College; M.A. (1930), Columbia University.
- RAYBURN W. JOHNSON (1925).....*Professor, Geography*  
B.S. (1924), M.A. (1925), George Peabody College for Teachers;  
Ph.D. (1936), University of Chicago.
- VIRGINIA LEE JOHNSON (1940) *Assistant Professor, Secretarial Science*  
B.S. (1930), Memphis State College; M.S. (1944), University of Tennessee.
- HELEN H. KALTENBORN (1946).....*Instructor, Mathematics*  
B.A. (1931), Barnard College; M.A. (1934), Columbia University;  
Ph.D. (1938), University of Michigan.
- H. S. KALTENBORN (1946).....*Professor, Mathematics*  
B.S. (1928), Carnegie Institute of Technology; M.S. (1931), Ph.D. (1934), University of Michigan.
- THOMAS R. KING (1958).....*Instructor, Speech and Drama*  
B.A. (1957), Howard College; M.A. (1958), Florida State University.
- JAMES C. KNEPTON, JR. (1955).....*Assistant Professor, Biology*  
B.S. (1949), M.S. (1951), University of Florida.
- IRL BROWN KRAUSE, JR. (1957)  
.....*Associate Professor, Curriculum and Instruction*  
B.A. (1944), Westminster College; M.A. (1949), Ed.D. (1954), University of Mississippi.
- FREDERIC O. LARRABEE (1954)  
.....*Associate Professor, Management and Finance*  
B.A. (1927), LL.B. (1930), State University of Iowa.
- ROSELLA LINSKIE (1956).....*Professor, Education*  
B.A. (1939), Our Lady of Victory College; M.A. (1942), Catholic University of America; Ph.D. (1956), University of Texas.
- CHARLES LONG (1957).....*Assistant Professor, Modern Languages*  
B.A. (1951), Henderson State Teachers College; M.A. (English) (1955), M.A. (German) (1956), University of Arkansas.
- JAMES H. LOVELL, JR. (1959).....*Instructor, English*  
B.A. (1951), M.A. (1953), Texas Christian College.
- ELNA BROWNING MCBRIDE (1946)...*Associate Professor, Mathematics*  
B.S. (1930), M.S. (1931), University of Tennessee
- MARY JANET MCCAIN (1958).....*Head Cataloger*  
Ph.B. (1930), University of Chicago; M.A. (1951), Mississippi State University; M.S. (1952), George Peabody College for Teachers.

## UNIVERSITY FACULTY—Continued

- JAMES R. McCANN (1955).....*Professor, Psychology*  
B.A. (1950), Washington University; M.A. (1952), University of  
Kansas City; Ph.D. (1955), Vanderbilt University.
- GENORA McFADDEN (1952).....*Associate Professor, Education*  
B.S. (1928), University of Virginia; M.A. (1931), University of  
Michigan; Ph.D. (1948), George Peabody College for Teachers.
- ROBERT W. McGOWAN (1949).....*Associate Professor, Biology*  
B.A. (1946), Lambuth College; M.A. (1947), George Peabody College  
for Teachers
- WAYNE McLaurin (1950).....*Instructor, English*  
B.A. (1948), Memphis State College; M.A. (1950), Duke University.
- JOHN McLEMORE (1956).....*Instructor, English*  
B.S. (1956), M.A. (1957), Memphis State College.
- HERBERT J. MARKLE (1951).....*Professor, Management and Finance*  
B.B.A. (1932), University of Minnesota; M.A. (1949), Ph.D. (1951)  
State University of Iowa.
- JAMES S. MATTHEWS (1949).....*Associate Professor, Geography*  
B.S. (1936), M.A. (1941), Kent State University; Ph.D. (1949), Uni-  
versity of Chicago.
- \*WILLIAM H. MILNER (1948)  
.....*Associate Professor, Management and Finance*  
B.A. (1916), University of Alabama; M.A. (1922) George Peabody  
College for Teachers.
- ENOCH L. MITCHELL (1939).....*Professor, History*  
B.S. (1929), Memphis State College; M.A. (1938), George Peabody  
College for Teachers.
- NELLE MOORE (1956).....*Assistant Professor, Education*  
B.A. (1930), Lambuth College; M.A. (1946), Duke University.
- FRANK MORGAN (1958).....*Instructor, English*  
B.A. (1954), Mississippi College; M.A. (1957), University of Mis-  
sissippi.
- THOMAS R. MORRIS (1956)..*Instructor, Health and Physical Education*  
B.A. (1954), Mississippi State College; M.A. (1958), Memphis State  
University.
- DELBERT P. NAVE (1950).....*Assistant Professor, Art*  
B.Ed. (1934), Eastern Illinois State Teachers College; M.A. (1939),  
Ohio State University.
- EMIL C. NEMITZ (1954).....*Instructor, Chemistry*  
B.S. (1922), University of Illinois; M.A. (1955), Memphis State  
College.

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\*Retired, January 1960

## UNIVERSITY FACULTY—Continued

- LEE N. NEWCOMER (1949).....*Associate Professor, History*  
B.A. (1935), DePauw University; M.A. (1936), Ohio State University;  
Ph.D. (1948), Columbia University.
- CARL RAY NEWSOM (1957).....*Associate Professor, Chemistry*  
B.S. (1938), Millsaps College; M.S. (1941), University of Alabama;  
Ph. D. (1953), George Peabody College for Teachers.
- E. F. NOTHERN (1958).....*Associate Professor, Education*  
B.S.E. (1947), University of Arkansas; Ed.M. (1949), Harvard University;  
Ed.D. (1953), University of Arkansas.
- ROBERT LEE OGLE (1955).....*Instructor, Industrial Arts*  
B.S. (1953), M.S. (1956), University of Tennessee.
- MYRA M. OLSTEAD (1959).....*Assistant Professor, English*  
B.S. (1947), Columbia University; M.A. (1954), Ph.D. (1959),  
University of Florida.
- MARCUS W. ORR (1959).....*Assistant Professor, History*  
B.A. (1952), Southwestern at Memphis; M.A. (1956), Ph.D. (1958),  
University of Illinois.
- WILLIAM R. OSBORNE (1955).....*Assistant Professor, English*  
B.A. (1948), Ouachita College; M.A. (1949), Ph.D. (1955), George  
Peabody College for Teachers.
- GEORGE W. PARCHMAN (1951).....*Assistant Professor, Biology*  
B.S. (1948), M.A. (1949), George Peabody College for Teachers.
- LEA GIBBS PARK (1954).....*Instructor, Speech and Drama*  
B.S. (1956), M.A. (1957), Memphis State University.
- WILLIAM EDWARD PARKER (1959).....*Assistant Professor, Art*  
B.Des. (1954), M.F.A. (1956), University of Florida.
- HERMAN F. PATTERSON (1955)  
..*Assistant Professor, Secretarial Science and Office Management*  
B.S. (1949), Berea College; M.A. (1954), University of Kentucky.
- BINFORD H. PEEPLES (1957).....*Assistant Professor, Accountancy*  
B.S. (1949), Mississippi State College; M.S. (1952) Florida State  
University.
- ELIZABETH C. PHILLIPS (1953).....*Assistant Professor, English*  
B.A. (1928), Maryville College; M.A. (1949), Ph.D. (1953), University  
of Tennessee.
- CARTHON P. PHILLIPS.....*Assistant Professor, Air Science*  
B.S. (1956), University of Maryland.
- MEREDITH POOLE (1955).....*Assistant Professor, Mathematics*  
B.A. (1950), M.A. (1955), University of Mississippi.
- VONNE F. PORTER (1957).....*Associate Professor, Psychology*  
B.A. (1948), University of Missouri; M.A. (1951), University of  
Kansas City; Ph.D. (1953), Vanderbilt University.
- LARRY H. POTTER (1952).....*Assistant Professor, Mathematics*  
A.B.E. (1943), M.A. (1949), University of Florida.

## UNIVERSITY FACULTY—Continued

- MINNIE McRAE POWELL (1958).....*Assistant Professor, Education*  
B.S. (1942), Memphis State College; M.A. (1949), University of Tennessee.
- ROBERT W. POWELL, JR. (1959).....*Assistant Professor, Biology*  
B.S. (1951), Memphis State College; M.S. (1953), University of Houston.
- ROBERT J. PRENDEVILLE (1959).....*Assistant Professor, Speech*  
B.A. (1943), University of New Mexico; M.A. (1946), Northwestern University.
- BEN E. PREWITT (1959).....*Instructor, Mathematics*  
B.S. (1936), U. S. Naval Academy; M.S. (1959), Purdue University.
- NOEL G. RAPP (1954).....*Assistant Professor, Speech and Drama*  
B.A. (1941), Kent State University; Ph.D. (1955), Purdue University.
- RICHARD RARIDON (1958).....*Associate Professor, Physics*  
B.A. (1953), Grinnell College; M.A. (1955), Ph.D. (1958), Vanderbilt University.
- FLORA RAWLS (1947).....*Professor and Dean of Women*  
B.A. (1925), M.A. (1930), Vanderbilt University.
- HENRY L. REEVES (1953).....*Assistant Professor, Mathematics*  
B.S. (1947), University of Alabama; M.A. (1951), George Peabody College for Teachers.
- MYRON L. RESNECK (1959).....*Instructor, Political Science*  
B.A. (1956), M.A. (1958), University of Mississippi.
- ✓ JOHN W. RICHARDSON, JR. (1959).....*Professor, Education*  
B.S. (1931), Murray State College; M.Ed. (1940), Duke University; Ed.D. (1957), New York University.
- ✓ MYRTLE P. RICHARDSON (1959).....*Director of Placement*  
B.A. (1931), Murray State College.
- JOSEPH H. RIGGS (1955).....*Assistant Professor, Speech and Drama*  
B.A. (1952), Alderson-Broadus; M.A. (1953), West Virginia University.
- JOSEPH RILEY (1954).....*Instructor, English*  
B.S. (1949), Memphis State College; M.A. (1953), Vanderbilt University.
- ✓ ELMA ROANE (1946)  
*Assoc. Prof., Health and Phys. Ed., Director of Women's Physical Education*  
B.S. (1940), Memphis State College; M.A. (1943), University of Tennessee.
- JOHN L. ROBERTS (1954).....*Assistant Professor, Secretarial Science*  
B.S. (1948), Eastern Illinois State College; M.A. (1950), George Peabody College for Teachers.
- R. M. ROBISON (1946).....*Dean*  
B.A. (1924), Southwestern; M.A. (1931), George Peabody College for Teachers.

## UNIVERSITY FACULTY—Continued

- ✓ A. S. RUDOLPH (1945).....*Professor, Biology*  
B.S. (1924), Western Kentucky State Teachers College; M.S. (1929),  
University of Kentucky; Ph.D. (1938), Iowa State College.
- ✓ HEBER ELIOT RUMBLE (1946)  
.....*Prof. and Acting Director of School of Education*  
B.S. (1924), Oakland City College; M.A. (1933), Ph.D. (1943), Uni-  
versity of Illinois.
- JOHN KELLEY RYANS, JR.....*Assistant Professor, Marketing*  
A.B.J. (1954), University of Kentucky; M.S. (1958), University of  
Tennessee.
- LADA SANDS (1951).....*Instructor, Home Economics*  
B.S. (1939), Memphis State College; M.A. (1957), Memphis State  
University.
- ✓ FRANK B. SCHIRMER, JR. (1959)...*Associate Professor, Physical Sciences*  
B.S. (1934), Clemson College; Ph.D. (1939), Cornell University.
- ✓ JOHN E. SCHWAIGER (1956)  
.....*Instructor and Storeroom Keeper, Physical Sciences*  
B.S. (1940), Memphis State College.
- ✓ E. B. SCOTT, JR. (1955)....*Assistant Prof., Health and Phys. Education*  
B.A. (1947), M.A. (1948), Colorado State College of Education;  
H.S.D. (1953), P.E.D. (1954), Indiana University.
- ✓ DOROTHY SEAY (1950).....*Associate Professor, English*  
B.A. (1918), Randolph Macon; M.A. (1927), Ph.D. (1941), University  
of Chicago.
- THOMAS PAGE SHARP (1959)  
.....*Assistant Professor, Management and Finance*  
B.S. (1957), M.S. (1959), Mississippi State University.
- ✓ DARRELL D. SIMMONS (1950).....*Assistant Professor, Industrial Arts*  
B.S. (1940), Arkansas State Teachers College; M.S. (1949), Okla-  
homa Agricultural and Mechanical College; Ed.D. (1958), University  
of Tennessee.
- EVERETT C. SIMPSON (1960).....*Assistant Professor, Biology*  
B.S. (1951), Oklahoma Agricultural and Mechanical College; M.S.  
(1952), University of Kentucky.
- ✓ PAUL SIMONTON (1955).....*Instructor, Biology*  
B.S. (1955), Memphis State University.
- ✓ PAUL H. SISCO (1947).....*Associate Professor, Geography*  
B.S. (1934), Memphis State College; M.A. (1947), George Peabody  
College for Teachers; Ph.D. (1954), University of Chicago.
- ✓ ALFRED WINN SMITH (1954).....*Assistant Professor, English*  
B.A. (1933), M.A. (1934), Vanderbilt University; Ph.D. (1954),  
George Peabody College for Teachers.
- ✓ WALTER R. SMITH (1951).....*Associate Professor, English*  
B.A. (1939), Lambuth College; M.A. (1940), Southern Methodist Uni-  
versity; Ph.D. (1951), University of California.

## UNIVERSITY FACULTY—Continued

✓ WILL D. SMITH (1960) . . . *Associate Professor, Curriculum and Instruction*  
B.A. (1938), M. A. (1939), Vanderbilt University; Ph.D. (1952),  
George Peabody College for Teachers.

\*L. E. SNYDER (1933) . . . . . *Instructor, Geography*  
B.S. (1931), M.A. (1932), George Peabody College for Teachers.

✓ JOHN A. SOBOL (1949) . . . . . *Assistant Professor, Geography*  
B.S.E. (1942), State Teachers College at Fitchburg; M.A. (1949),  
Clark University.

ELIZABETH SUPPLEE SPENCER (1956) . . . . . *Instructor, Journalism*  
B.A. (1937), Cornell University; B.J. (1940), M.A. (1941), University  
of Missouri.

JESSE W. SPICELAND (1949) . . . . . *Professor, Accountancy*  
B.S. (1947), Southern Illinois University; M.S.B.A. (1948), Washing-  
ton University; CPA (1951), Tennessee.

CHARLES R. SPINDLER (1950) . . . . . *Professor, Marketing*  
B.S. (1939), Northeast Missouri State Teachers College; M.A. (1942),  
State University of Iowa.

JULIE WORTH SPRUNT (1957) . . . . . *Instructor, Psychology*  
B.A. (1945), Mary Baldwin College; M.A. (1947), University of  
Virginia.

✓ CALVIN M. STREET (1939) . . . . . *Professor, Industrial Arts*  
B.S. (1939), Memphis State College; M.S. (1946), Ed.D. (1953),  
University of Tennessee.

FRANCES L. STREET (1957) . . . . . *Assistant Professor Mathematics*  
B.S. (1940), Memphis State College; M.S. (1947), University of  
Tennessee.

RAYMOND L. TANNER (1955) . . . . . *Assistant Professor, Physics*  
B.S. (1953), Memphis State College; M.S. (1955), Vanderbilt Uni-  
versity.

HERMAN EUGENE TAYLOR (1956)  
. . . . . *Assistant Professor, Management and Finance*  
B.A. (1940), LL.B. (1951), University of Mississippi; LL.M. (1955),  
New York University.

CHARLES E. TEMPLETON (1957)  
. . . . . *Instructor, Management and Finance*  
B.S. (1942), Mississippi State College; C.P.A. (1954), Tennessee

✓ HAL M. TERRY, JR. (1958) . . . . . *Assistant Professor, Air Science*  
B.S. (1950), Mississippi College.

\*Deceased

## UNIVERSITY FACULTY—Continued

- JAMES T. THOMPSON (1955).....*Associate Professor, Accountancy*  
B.A. (1948), Murray State College; M.B.A. (1949), Indiana University.
- WAYLAND A. TONNING (1956).....*Associate Professor, Marketing*  
B.S. (1953), M.S. (1954), Ph.D. (1959), University of Illinois.
- MALRA C. TREECE (1957)  
.....*Instructor, Secretarial Science and Office Management*  
B.S. (1947), Arkansas State College; M.A. (1956), Memphis State College.
- CLARENCE L. UNDERWOOD (1950)...*Associate Professor, Education*  
B.S. Agr. (1918), West Virginia University; M.S. (1920), Ohio State University; Ph.D. (1935), University of Pittsburg.
- BUFORD C. UTLEY (1956).....*Assistant Professor, History*  
B.S. (1951), Memphis State College; M.A. (1953), George Washington University.
- ROBERT VANATTA (1956)  
.....*Associate Professor, Health and Physical Education*  
B.A. (1942), Central College; M.A. (1950), University of Missouri.
- DESIDER VIKOR (1957).....*Assistant Professor, Economics*  
J.U.D. (1938), Francis Joseph University (Hungary); M.A. (1955), Washington University.
- JAMES WILSON WAITES (1960).....*Instructor, Physical Education*  
B.A. (1937), Howard College; M.E. (1956), Trinity University.
- DAVID T. WALKER (1955).....*Assistant Professor, Mathematics*  
B.S. (1949), Wofford College; M.S. (1951), Ph.D. (1955), University of Georgia.
- ROY E. WATKINS (1957)...*Professor, Classical and Modern Languages*  
B.A. (1933), Luther College; M.A. (Classics) (1934); M.A. (German) (1952); Ph.D. (Classics) (1940), State University of Iowa.
- GEORGE ALLEN WESTLAND (1957)....*Assistant Professor, Journalism*  
B.J. (1949), M.A. (1957), University of Missouri.
- ALMA WHITAKER (1947).....*Assistant Professor, Home Economics*  
B.S. (1929), Memphis State College; M.A. (1941), University of Tennessee.
- BRADFORD WHITE (1948).....*Professor, Speech and Drama*  
B.A. (1934), University of North Carolina; M.F.A. (1939), Yale University.
- C. D. WILDER, JR. (1959).....*Assistant Professor, Biology*  
B.A. (1948), University of North Carolina; M.S. (1951), University of Tennessee.
- HERBERT LEE WILLIAMS (1956).....*Professor, Journalism*  
B.A. (1940), Murray State College; M.A. (1941), University of Mississippi; Ph.D. (1955), University of Missouri.

- JOHN A. WINFREY (1958).....*Instructor, Mathematics*  
B.S. (1926), U. S. Naval Academy; M.S. (1958), Memphis State University.
- OLIVER S. WOOLLARD, JR. (1960).....*Assistant Professor, Air Science*  
B.S. (1955), Florida State University.
- RUTH WOODBURY (1953) .....*Instructor, History*  
B.A. (1940), M.A. (1947), University of Mississippi.
- JAMES D. WOOLF (1959) .....*Assistant Professor, English*  
B.A. (1942), The College of the Ozarks; M.A. (1949), University of Michigan; Ph.D. (1953), Vanderbilt University.
- MILTON LEROY WRAY (1957).....*Assistant Professor, Accountancy*  
B.A. (1951), Southwestern at Memphis; M.B.A. (1954), Wharton School of Finance and Commerce, University of Pennsylvania; C.P.A. (1956), Tennessee.
- LAWRENCE WYNN (1950).....*Associate Professor, English*  
B.A. (1936), Emory University; M.A. (1940), Duke University; M.A. (1947), Ph.D. (1951), Princeton University.
- TOMMYE CAMP YATES (1959)  
.....*Instructor, Health and Physical Education*  
B.S. (1954), University of Chattanooga; M.S. (1955), University of Tennessee.
- MARGARET YOST (1958).....*Assistant Librarian*  
B.A. (1930), Southwestern at Memphis; B.A.L.S. (1932), Emory University.
- JO ANNE YOUNG (1957)....*Instructor, Health and Physical Education*  
B.S. (1953), Florida State University; M.Ed. (1955), Woman's College, The University of North Carolina.

# SPECIAL INSTRUCTORS

MILTON C. ADDINGTON .....*Psychology*  
B.A. (1947), Southwestern at Memphis; M.A. (1949), Ph.D. (1951),  
University of Tennessee.

MARY V. BATTLE.....*English*  
B.A. (1948), College of St. Teresa; M.A. (1954), Catholic University  
of America.

HERBERT H. BOCKIAN.....*Classical and Modern Languages*  
B.A. (1950), Columbia College; M.A. (1955), University of Miami.

SHELBY COUNCE.....*Curriculum and Instruction*  
B.A. (1949), Florence State; M.S. (1950), University of Mississippi.

VINCENT DE FRANK .....*Music*  
Violoncello student of Percy Such, George Miguelle, Fritz Magg; con-  
ducting with Serge Koussevitzky. Former member of Detroit and St.  
Louis Symphony Orchestras. Conductor, Memphis Sinfonietta.

JOHN E. ELLIS.....*History*  
B.S. (1955), M.A. (1958), Memphis State University.

WILLIAM FARRIMOND.....*Mathematics*  
B.S. (1937), University of Illinois.

MAUD FOX.....*English*  
B.S. (1937), M.A. (1940), George Peabody College for Teachers.

NOEL GILBERT .....*Music*  
Student of Joseph Henkel, Scipione Guidi. Concert-master, Memphis  
Symphony Orchestra. Conductor, Memphis Concert Orchestra.

RALPH G. HALE .....*Music*  
Student of Frank Simon, Tilden Well. President Music Camp of the  
Ozarks. Director of Bands, Christian Brothers College, Memphis.

JOHN J. HEFLIN, JR. ....*Management and Finance*  
B.A. (1933), M.A. (1934), Vanderbilt University.

FLORENCE KRAUSE .....*English*  
B.A. (1951), M.A. (1953), University of Mississippi.

THOMAS LOWE, JR. ....*Mathematics*  
B.A.E. (1956), Georgia Institute of Technology.

WARREN G. MADDUX .....*Classical and Modern Languages*  
B.A. (1950), Southwestern at Memphis; M.A. (1953), State University  
of Iowa.

ETHEL TAYLOR MAXWELL .....*Music*  
B.A. (1936), Southwestern at Memphis; M.A. (1956), Memphis State  
College. Voice student of Arthur Wrege, Jean Teslof, Estelle Liebling;  
opera with Luigi Rossi. Soprano soloist, Unity Church of Christianity  
Supervisor of Music, Lausanne School, Memphis.

## SPECIAL INSTRUCTORS—Continued

- MARY H. NELSON ..... *Classical and Modern Languages*  
B.S. (1952), Memphis State College.
- DOROTHY F. NEWCOMER ..... *Speech and Drama*  
B.A. (1944), Hofstra College; M.A. (1947), Columbia University.
- IRA W. PYRON, JR. .... *Management and Finance*  
B.A. (1948), Southwestern at Memphis; M.B.A. (1951), Harvard University.
- KENNETH BRUCE RHINEBERGER ..... *Management and Finance*  
B.S. Pharm. (1936), University of Tennessee.
- JEROME P. ROBERTSON ..... *Music*  
Student of Percy Rector Stephens, 1921-23; Enrico Rosati, 1924-25; Robert Hosea, 1926-27; Basil Ruysdael, 1928; Albert Jenotte, 1929; Gaetano DeLuca, 1930; Doctor of Music (Honoris Causa), (1958) Belhaven College. Director of Music, Second Presbyterian Church, Memphis.
- DOROTHY ROSS ..... *Art*  
B.A. (1951), M.A. (1953), University of Minnesota.
- SYDNEY RUDMAN ..... *Curriculum and Instruction*  
B.S. (1942), M.Ed. (1947), Pennsylvania State University.
- J. GARFIELD SMITH, JR. .... *Mathematics*  
B.S.C.E. (1949), Louisiana State University.
- MINAPERLE TAYLOR ..... *Music*  
B.A. (1923), M.M. (1925), Chicago Musical College; voice student of Burton Thatcher, Berlie Forbes Cutter, Percy Rector Stephens, Herbert Witherspoon, William S. Brady, Richard Hangeman, Oscar Sanger.
- LEE C. THOMPSON ..... *Education*  
B.S. (1951), M.A. (1954), Memphis State College.
- ROGER VAN BROCKLIN (1960) ..... *Mathematics*  
B.S. (1959), Memphis State University.
- GOUGH WHEAT ..... *Mathematics*  
B.S. (1949), M.S. (1954), Memphis State College.
- DAN B. WOLF ..... *Curriculum and Instruction*  
B.S.J. (1944), Northwestern University.

## TRAINING SCHOOL FACULTY

1959-60

- GRADY G. WOODY (1958) .....*Principal*  
B.S. (1951), Union University; M.A. (1958), Memphis State University.
- PERRY ALEXANDER (1947) .....*Associate Professor, First Grade*  
B.S. (1950), M.A. (1953), Memphis State College.
- MARY ANDERSON (1951) .....*Assistant Professor, Third Grade*  
B.S. (1947), Memphis State College; M.A. (1952), George Peabody College for Teachers.
- ESSIE BOALS (1955) .....*Assistant Professor, Mathematics, Latin*  
B.S. (1932), George Peabody College for Teachers; M.A. (1957), Memphis State University.
- OPAL COLEMAN (1931) .....*Associate Professor, Third Grade*  
B.A. (1925), Texas State College for Women; M.A. (1932), George Peabody College for Teachers.
- MARY DUNN (1924) .....*Associate Professor, Second Grade*  
B.S. (1928), M.A. (1932), George Peabody College for Teachers.
- SARAH LEE FOSTER (1955) .....*Instructor, Mathematics, Science*  
B.S. (1952), University of Tennessee; M.A. (1957), Memphis State University.
- B. E. FULGHUM (1948) .....*Associate Professor, Physical Education*  
B.S. (1930), Memphis State College; M.A. (1942), George Peabody College for Teachers.
- ELBA GANDY (1946) .....*Assistant Professor, Music*  
B.M.E. (1944), Louisiana State University; M.M. (1946), Northwestern University.
- MILDRED GRAGG (1949) .....*Assistant Professor, English*  
B.S. (1941), Memphis State College; M.A. (1948), George Peabody College for Teachers.
- GEARY KRILL IRWIN (1959) .....*Instructor, Kindergarten*  
B.A. (1945), University of California.
- JANET TADLOCK JENNINGS (1952) ..*Assistant Professor, Fourth Grade*  
B.A. (1940), M.A. (1946), University of Kentucky.
- JOHN ETHEL MEASELLS (1946) .....*Associate Professor, Library*  
B.S. (1931), Memphis State College; M.A. (1946), B.S. in Library Science (1951), George Peabody College for Teachers.
- AGNES ANN MOORE (1957) .....*Instructor, Seventh Grade*  
B.S. (1954), M.A. (1957), Memphis State University.
- IRENE MOORE (1929) .....*Assistant Professor, Fifth Grade*  
B.S. (1929), Memphis State College; M.A. (1940), University of Texas.
- DELBERT P. NAVE (1950) .....*Instructor, Industrial Arts*  
B.Ed. (1934), Eastern Illinois State Teachers College; M.A. (1939), Ohio State University.

**TRAINING SCHOOL FACULTY—Continued**

- VIVIAN NEWMAN (1953) .....*Associate Professor, Fourth Grade*  
B.S. (1937), M.A. (1954), Memphis State College.
- ANNIE LAURIE PEELER (1930) .....*Associate Professor, Sixth Grade*  
B.S. (1929), M.A. (1930), George Peabody College for Teachers.
- FRANCES H. PETERS (1955) .....*Instructor, Sixth Grade*  
B.S. (1942), M.A. (1957), Memphis State University.
- NANCY ROGERS (1956) .....*Instructor, English, Social Science*  
B.S. (1951), Mississippi State College for Women; M.E. (1954),  
University of Mississippi.
- LADA SANDS (1951) .....*Instructor, Home Economics*  
B.S. (1939), Memphis State College; M.A. (1957), Memphis State  
University.
- NELLIE C. SHORT (1930-40) (1942) .....*Assistant Professor, English*  
B.S. (1928), M.A. (1929), George Peabody College for Teachers.
- DOROTHY ANN SIMMONS (1958) .....*Instructor, First Grade*  
B.S. (1952), M.A. (1956), Memphis State University.
- JULIA THOMAS (1947) .....*Assistant Professor, Second Grade*  
B.S. (1947), Memphis State College; M.A. (1951), George Peabody  
College for Teachers.
- HAWTHORNE WALLIS (1955) .....*Assistant Professor, Social Science*  
B.S. (1939), M.A. (1947), Murray State College.
- EVELYN WARR (1949) .....*Assistant Professor, Fifth Grade*  
B.S. (1930), University of Mississippi; M.A. (1952), Memphis State  
College
- ROSESTELLE B. WOOLNER (1959) .....*Instructor, Kindergarten*  
B.S. (1958), Memphis State University.

### **HISTORICAL STATEMENT**

The State Normal Schools of Tennessee were established by an act of the General Assembly of 1909. That act is popularly known as the General Education Bill, and included appropriations for all public school agencies of the state. It provided that thirteen per cent of the State School Fund—which was thirty-three and one-third per cent of the gross revenues of the state—should be used for the establishment and maintenance of normal schools.

The law vested the location and control of the normal schools in the State Board of Education. Acting under this authority, the State Board of Education received proposals from various cities and counties in the state for the location of the normal schools, and finally decided upon the location of three schools for the training of teachers, as follows: West Tennessee State Normal School at Memphis, Shelby County; Middle Tennessee State Normal School at Murfreesboro, Rutherford County; and East Tennessee State Normal School at Johnson City, Washington County. These cities and counties made most generous appropriations in consideration of the location of the schools. Memphis and Shelby County issued bonds for the West Tennessee State Normal School to the amount of \$350,000 and donated a site of approximately fifty acres, to which was added thirty acres, the whole forming a beautiful campus now within the corporate limits of Memphis.

The school appropriations and the accumulation from the State School Fund for three years were invested in a magnificent main building and a dormitory, and the institution was formally opened on September 15, 1912. The West Tennessee school, like the other state institutions, which were opened the year previous, had a most gratifying attendance from the start; and the succeeding years have been even more successful.

### **PURPOSE OF THE UNIVERSITY**

The General Education Law of 1909, which created state normal schools, declared their purpose to be "the education and professional training of teachers for the elementary schools of the state." The Act of 1925 provided for teachers colleges and declared that the function of such colleges should be to prepare teachers for the public schools of the state. In accordance with these laws Memphis State University is preparing elementary and high school teachers, instructors and supervisors in special subjects, and principals and superintendents of county and city schools.

In order to meet more adequately the educational needs of this section of the state, the name of the college was changed by the state legislature in 1941 from "State Teachers College" to "Memphis State College," and the college began to offer subjects generally included in a liberal arts curriculum, and in addition many other subjects which are demanded by the public school system of the state. By 1950, Memphis State College had grown to such an extent that it was felt to be necessary to reorganize the college in order to serve more effectively the students of West Tennessee and the surrounding areas. By permission of the State Board of Education and by faculty action, the general college was divided into the following schools: Arts and Sciences, which was to offer preprofessional training and the basic liberal arts work; Business Administration, which was to provide a

program of professional training at the college level for those who wish business training; Education, which was to provide a program of teacher education which would promote the growth and development necessary for successful teaching; and a Graduate School which was to offer a program leading to the Master of Arts degree with a major in education and with minors in various areas. In 1954 the graduate school increased its program by offering majors in English, Geography, and History in addition to the major in Education; in 1959 Biology and Physical Science Majors were added. The undergraduate program was expanded in the fall of 1956 by the opening of the Evening Division, which offers work in all three schools. In 1957 Memphis State College by legislative act was elevated to university status and became Memphis State University effective July 1, 1957.

### THE UNIVERSITY PLANT

**Location.**—Memphis State University is located on a campus of eighty acres in the eastern part of the city of Memphis.

**Administration Building**—The administration building is an imposing structure containing the offices of the president, dean, registrar, bursar, and the directors of the several schools. The dean of women's office and the alumni office are also located in this building. In addition to classrooms for the departments of Art, Business Administration, French, Education, English, History, Mathematics, Music, and Speech, the administration building contains individual office space for the instructors in these departments.

**Manning Hall**—The science building, erected in 1930, is named to perpetuate the memory of Priestly Hartwell Manning, the first teacher of science at Memphis State University and a member of its first faculty. Additional classrooms and laboratories were added in 1953-59 in order to take care of the growing demand for courses in science and to modernize the scientific equipment.

In Manning Hall are located the Department of Physical Sciences, including Chemistry and Physics, the Department of Biology, and the Department of Home Economics. The Department of Physical Sciences occupies the basement level, the first floor, and a part of the second floor; the Department of Biology occupies the larger portion of the second floor and a part of the third floor; the Department of Home Economics occupies a large part of the third floor and includes a demonstration apartment consisting of a living room, dining room, bedrooms, kitchen, closets, and storerooms. On the first floor is the science auditorium, which is equipped for visual aids and is available for scientific lectures and demonstrations.

**The Library Building**, erected in 1927, is named for former President John Willard Brister. It has recently been remodeled and expanded so that it will have a capacity of 150,000. The collection at present numbers 120,000 volumes including microfilm and microprint. Subscriptions and files are maintained for periodicals of a general and specialized nature to fill the needs of the curriculum.

The funds appropriated for the use of the library enable the university to maintain the standards set by accrediting agencies.

**Mynders Hall East** is a fireproof building offering modern, attractive quarters to 178 upper-class women. Dormitory facilities include attractive parlors, sound proof music rooms, a laundry equipped with automatic washers, dryers, and ironers for the use of the students, a kitchen for use in entertaining, and a sun deck. Rooms are arranged in suites of two bedrooms with connecting tile bath. Most suites ac-

commodate three girls; a few accommodate four. Each room has a closet for each occupant, single beds with innerspring mattresses, chest, desk, desk chairs, and easy chairs. Floors are covered with asphalt tile.

**Mynders Hall West**, completed in the summer of 1956, is a modern, well equipped dormitory planned to accommodate 165 freshmen women. Its facilities include attractive lobbies, date rooms, a recreation room, a laundry room, and a small kitchenette. Rooms are planned to accommodate two girls, and each is equipped with venetian blinds, two closets, a wash basin, full length mirror, and for each resident a single bed with innerspring mattress, a chest-desk, and a chair.

**Scates Hall** is a three story structure with a capacity of 136 men students. This building has a three-room apartment for the manager and his family. The halls are well lighted, sound proof, and air conditioned. Each room is equipped with furniture for from one to three occupants. All floors are of concrete and are covered with asphalt tile. Each room also contains two closets and two double electric outlets for study lamps and radios.

**Hayden Hall**, completed in the summer of 1952, is named in honor of the late Professor Grover H. Hayden, professor since 1918. Fireproof and modern in every detail, it is a two-story, three-unit building designed to house 72 men students.

**North Hall**, completed in February, 1957, is a modern dormitory for men to be occupied by upper-classmen. Its 77 rooms, with entirely new furnishings, will accommodate 154 students. In addition, the building has two lobbies and a recreation room for students, and a two-bedroom apartment for the manager and his family.

**Training School.**—The Training School Building is designed to accommodate the elementary school and the junior high school. It has twenty-four classrooms, an auditorium, a library, and a cafeteria. The school has a normal enrollment of over 700, and furnishes facilities for training student teachers and opportunities for observing good teaching procedures.

**Gymnasiums**—There are two buildings. One, erected in 1928, has been set aside for the use of the training school. Another building with a seating capacity of 4000 for basketball games was completed in 1951. In 1958 an enlargement of this building was made possible through the generosity of the City of Memphis, which gave \$100,000.00 for this purpose. At present this building has two gymnasiums, shower and dressing facilities for both male and female physical education classes, shower and dressing facilities for varsity athletic teams, and in addition class rooms and offices for the Physical Education Department and coaching staff.

**Johnson Hall**, completed in 1958, is a two and one-half story ultra-modern, fireproof and air-conditioned building. It is named in honor of Dr. Rayburn W. Johnson, Chairman of the Department of Social Sciences, and his wife, the late Mrs. Ethel B. Johnson. Johnson Hall is the permanent home of Geography, Economics, Political Science, and Sociology. The first floor, with special features such as three laboratories, a map library, a conference room, and an auditorium, is used by students and staff members in Geography. The unique auditorium is fully equipped to meet the demands of all the social sciences.

The second floor contains classrooms and staff offices which are used by the faculty and students in Economics, Political Science, and Sociology, Philosophy, and Psychology.

The Ethel B. Johnson Reception Room is located on the ground floor directly under the auditorium. This beautiful room contains a large bronze plaque of Mrs. Johnson and is dedicated to the use of the MSU Dames. It will seat 100 people and is equipped with a modern kitchen. The ground floor also contains two classrooms and offices for three staff members.

**Student Center.**—The University recognized the importance of providing a place where social life of students may be centered. The newly erected Student Center adjoins the cafeteria, and maintains a soda fountain, snack bar, and offers facilities for games, dancing, and group meetings. It is beautifully decorated and equipped in a modern manner. The second floor of the Student Center has sorority and fraternity rooms and quarters for the Pan-hellenic hostess.

**Cafeteria.**—The cafeteria, at the east end of the Student Center, is a newly decorated structure with a seating capacity of 500. The large and well-lighted kitchen is provided with all modern conveniences, including up-to-date ranges, ovens, and cold storage.

**AF-ROTC Building.**—The west end of the Student Center houses the AF-ROTC class rooms and offices for the AF-ROTC staff. This area also has been recently redesigned and redecorated to suit the needs of the military unit.

**The Power Plant.**—The power plant contains a battery of boilers for the heating of all the buildings on the campus.

**Industrial Arts Building.**—The industrial arts building was built in 1941 for the use of the N.Y.A. In 1946-47 it was remodeled and modernized. It is of concrete block construction, faced with brick veneer. It provides facilities for woodwork, drafting, metalwork, electricity, ceramics, photography, and general shop practices.

**Veterans Housing.**—Nineteen buildings were erected on the northern portion of the campus in 1946-47. The buildings provide housing facilities for 75 families. The buildings were erected by the F.P.H.A. to relieve the housing shortage for married veterans.

**University Auditorium.**—This auditorium is designed to seat approximately twelve hundred persons and is used for assemblies. The stage has been modernized to provide more adequately for the dramatic and musical productions that are sponsored by these departments.

**Health Center.**—Services of a physician and registered nurse are provided for minor treatment and consultation in the University Health Center which is located on the first floor of the Administration Building. The student is responsible financially for hospitalization or medical care beyond that offered by the Health Service; arrangements for care for resident students should be made in consultation with the Health Center staff. Parents of resident students will be notified when additional medical services are necessary.

**Bookstore.**—The University Bookstore is located on the first floor of the Administration Building. Here the students may purchase their textbooks and other supplies.

**Postoffice.**—The Postoffice is located on the first floor of the Administration Building. Each dormitory student is expected to rent a mailbox to facilitate the handling of his mail and should have his mail addressed: Memphis State University Station, Memphis 11, Tennessee.

### GENERAL INFORMATION

**When to Enter.**—The academic year covers a period of forty-eight weeks, divided into two semesters and a summer session. Students may enter during the registration period of any of these terms.

**Summer Session.**—The summer session carries courses for two accelerated six-week terms as well as full session courses. During the summer session a student may carry approximately two-thirds of the number of hours that he would be allowed to carry during a full semester of work.

**Health.**—All students are required to file with the Registrar a medical history and report of physical examination on the Health Service Record Card provided by the University. Each student must be free from communicable disease; must show evidence of vaccination for smallpox within the past five years; and must show a satisfactory chest x-ray within the past six months. The Memphis-Shelby County Health Department in cooperation with the Shelby County Tuberculosis Association provides for chest x-ray through local health clinics.

**Room Reservation.**—Students entering Memphis State University as regular students and wishing to live in the dormitories should make application at the earliest possible date. Rooms are reserved in the order in which applications are received. A deposit of \$15.00 is required for reservation, the amount of the fee being credited to the expense of the term. The reservation fee is refunded if notice of cancellation is received 30 days before the opening of the semester for which the reservation is made; it is not refunded on later notice.

Students living in the dormitories during the second semester and wishing to retain a room for the first semester of the next school year should make this reservation early in the spring.

Reservations for the women's dormitories are made with the Dean of Women; for the men's dormitories with the Bursar.

Women students not living at home are expected to live in the women's residence halls when space is available. Any exceptions to the above policy must be approved by the Dean of Women.

Upon registration, married veterans are eligible to apply to the Memphis State University Housing Authority for an apartment.

**What Students Furnish.**—Students expecting to live in the dormitories should bring the following articles: towels, bed linen, blankets, and a pillow. Students in the dormitories are required to keep their own rooms in order.

**Conduct.**—It is assumed that applicants for admission to Memphis State University are ladies and gentlemen and every consideration will be shown them as such until, by their own acts, they forfeit the confidence reposed in them. Rules of government and regulations in regard to general conduct are, of course, necessary. Whenever any number of people live together, each must forfeit some individual privilege for the general good. The rules and regulations are of such nature as to secure ready conformity and also sympathy and co-operation on the part of students in making them effective.

Possession of firearms or fireworks is prohibited. Students who bring firearms to the campus are subject to dismissal.

Students are expected to give their scholastic obligations first consideration, to be prompt and regular in attendance on all classes and examinations, and to observe properly the hours set apart for study by making diligent use of the same.

**Hazing.**—Any form of hazing is positively forbidden.

**Railway and Baggage.**—Memphis is easily reached by a number of railway and bus lines. Students coming to Memphis State University via the Southern Railway may get off at Buntyn, but trunks which they have checked will be carried to Union Station. Students make their own arrangements with transfer companies for delivery of their trunks and baggage to the dormitories.

**Special Advantages.**—In addition to the usual school advantages, the university offers its students many opportunities that are considered especially valuable.

All of the large libraries in the city of Memphis furnish free use of their books and buildings to the students of the university.

The students of this institution are given free admission to the lecture course of Goodwyn Institute, probably the most extensive and celebrated course of its kind in the United States. Students have the opportunity of attending the performances of professional stage plays, grand and light operas, symphony orchestras, and other musical and theatrical artists.

Leading business and manufacturing enterprises of the city offer free inspection and study of their business methods and plants to classes of the university students accompanied by their instructors.

**Co-operation.**—Memphis State University regards itself as an integral part of the public school system of Tennessee and recognizes the need of the closest co-operation with the county and city school authorities. Accordingly, it constantly endeavors to serve faithfully all public school interests, especially by the preparation of better teachers for the schools. In this work it has uniformly received the hearty support of public school authorities.

**Placement Service.**—Memphis State University cannot guarantee positions to its graduates. It endeavors, however, to place students with satisfactory records in good positions. It invites county and city school authorities, business and industrial organizations to make use of its placement service in securing desirable teachers, office assistants, salesmen, chemists and physicists.

**Alumni Association.**—Memphis State University has recently reorganized its Alumni Association and now maintains active contact with most of its graduates. The association is for the mutual benefit of the graduates and the university. An Alumni Office is maintained in the Administration Building and has the services of a secretary and staff. Annual meetings of the association are held on the university campus each autumn in connection with the homecoming football game.

All graduates of Memphis State University are urged to keep in contact with the Alumni Office. Students in attendance at the university are invited to become acquainted with alumni activities.

### LOAN FUNDS

1. **National Defense Education Act.** The University participates in the loan program under the National Defense Act of 1958. Dr. John W. Richardson administers this program.

2. **The University Loan Fund.** The University has a revolving loan fund from which it makes loans in varying amounts to eligible students.

3. **The Aull Loan Fund.** A fund of \$250.00, contributed by Mrs. Genevieve Aull, is to be used for loans to members of the senior class who have demonstrated their scholastic eligibility by one or more years of satisfactory work in residence.

4. **The United States Daughters of 1812 Loan Fund.** This fund of \$650.00, donated by the Old Hickory Chapter, U.S.D., of 1812, Memphis, consists of three awards, as follows: (1) the Mary Robinson Day Memorial Scholarship of \$250.00; (2) the Martha Moore Allen Scholarship of \$250.00; and (3) the Willis Hitzing Scholarship of \$125.00. All three of these awards are loan funds, and may be awarded to a man or woman on recommendation of the faculty.

5. **The Shelby County Parent-Teacher Association Loan Fund.** This is a fund of \$602.38, available in varying amounts to eligible students who apply to the University Loan Fund Committee.

6. **The American Association of University Women Loan Fund.** This fund of \$200.00, administered by the Memphis Branch of the A.A.U.W., is available to women students recommended by the university.

7. **The John W. Brister Loan Fund.** On the occasion of the twenty-first birthday celebration of the university, the members of the faculty presented a fund of \$150.00 to be named in honor of the late President John Willard Brister.

8. **The Class of 1933 Loan Fund.** This fund of \$102.00 was donated by the Class of 1933 as a class memorial.

9. **The Quota Club Loan Fund.** This is a fund administered by the Quota Club of Memphis. Women students of junior or senior rank are eligible to receive loans from this fund. Applications may be made to Mrs. Ellen Davies Rodgers, Chairman of the Education Committee of the Memphis Quota Club.

10. **The Zonta Club Loan Fund.** The Zonta Club of Memphis has established a loan fund of \$250.00, to be increased from year to year. Eligible junior and senior women may apply to the dean of women, who will submit their names to a committee of the Zonta Club for selection and approval.

11. **The Ernest C. Ball Loan Fund.** This fund of \$280.36 is available for loans to eligible students.

12. **The Marion Circle Loan Fund.** This fund of \$100.00 is available for loans to eligible students.

13. **The Kappa Lambda Sigma and Phi Lambda Delta Loan Fund.** This fund of \$206.00 was presented by the Kappa Lambda Sigma sorority and the Phi Lambda Delta fraternity in memory of those Phi Lambda Deltas who lost their lives in World War II.

Except as otherwise specified, applications for loans from any of the funds listed above should be made to Mr. Lamar Newport, Chairman of the Scholarships and Loans Committee.

#### **SCHOLARSHIPS**

1. **The Tennessee State Board of Education Scholarship Fund.** The University is authorized by the Tennessee State Board of Education to award a number of academic scholarships to students who have exceptionally good records. These scholarships pay all registration fees, amounting to \$165 for a year. For Tennesseans only.

2. The P. H. Manning Scholarship Fund. The late Professor P. H. Manning left the bulk of his estate to be used by the State Board of Education to provide scholarships for young men students meeting certain conditions set forth in his will. These scholarships of \$100.00 each are given to young men from the counties of Gibson, Henderson, Carroll, and Decatur. Application should be made to Mr. Lamar Newport, Chairman of the Scholarships and Loans Committee.

3. The American Association of University Women Scholarship. The Memphis Branch of the A.A.U.W. awards a \$200.00 scholarship on alternate years to a senior woman for graduate study. In making the award the following points are considered: (1) the scholarship record of the applicant for the semester preceding January 25; (2) the need for financial assistance; (3) intention to graduate from the university; and (4) general acceptability. Applications for this scholarship are to be made by January 25 of each year to the A.A.U.W. Scholarship Committee, through the dean of women.

4. The Robert H. Parish, Jr., Memorial Scholarship amounting to \$150.00 annually is a four year scholarship offered each year to a male graduate of East High School, Memphis, Tennessee. The scholarship is a memorial established by Mr. and Mrs. Robert H. Parish of Memphis to their son, Robert H. Parish, Jr.

5. The Arabesque Music Scholarship began in 1949. The recipient is awarded \$63.00 a semester to a total of \$126.00. To receive this award the applicant must be or plan to become a music major, have and maintain a C average, need financial assistance, and be approved by the Arabesque Club. Applications for this scholarship should be made to the Music Scholarship Committee.

6. The Sertoma Club-Robert Talley Journalism Scholarship has been established to honor a long-time member of the editorial staff of the Memphis Commercial Appeal. Each year the Sertoma Club of Memphis awards a scholarship valued at \$120.00 to an advanced journalism student who has shown outstanding work at Memphis State University. Applications for this scholarship should be made to the Director of the School of Arts and Sciences.

7. The Department of Social Sciences offers a scholarship of \$125.00 per annum to outstanding students desiring to work in economics, geography, political science or sociology. Either a boy or girl is eligible for this award. Scholarships are not open to freshman students who did not finish in the upper 10% of their graduating class. For further information call or write the Chairman of the Department of Social Sciences.

8. The Sarah Ann Smith Award established in honor of Sarah Smith by the Alpha Xi Delta Sorority, provides an annual scholarship of \$50.00 awarded to the most outstanding junior women majoring in mathematics.

9. For several years, the women of The Coterie, an organization interested in the arts and philanthropies in those fields, has provided scholarships for young women for the purpose of continuing their study of the fine arts. The Coterie sponsors the annual Shakespeare Festival in order to secure funds for the scholarships.

#### **AWARDS**

The Women's Association of the university offers an award annually to the woman member of the senior class who, having done all her work at this institution, shows the highest scholastic attainment.

The international fraternity of Delta Sigma Pi annually awards a scholarship key to the senior man majoring in business with the highest scholastic average.

The City Panhellenic Association makes an award each year to the sorority woman in the graduating class with the highest average.

Phi Gamma Nu, the professional sorority in Business, each year presents a scholarship key to the woman business graduate who has maintained the highest scholastic average in The School of Business.

The Simon and Gwynn marketing award is given annually to a senior majoring in marketing for the best treatise on a selected subject on advertising or marketing. The award consists of \$100 and a trophy.

Each year the Wall Street Journal makes an award to the most outstanding graduate in the field of management. The award consists of a plaque and a year's subscription to the Journal.

The Memphis Chapter of the Tennessee Society of Certified Public Accountants presents a plaque each year to the graduating student who majors in accountancy and has the highest overall scholastic average of all accountancy majors.

The Smead award is presented to the graduate who is the most outstanding in the field of business education who is planning a career of teaching.

## STUDENT ACTIVITIES

Student activities provide opportunities for recreation, for developing interests, and for building leadership and initiative.

**Student Government.**—Student affairs are under the direction of an association of student representatives. The officers of the student government are a president, vice president, and a secretary.

**Sororities and Fraternities.**—The following national sororities and fraternities have chapters on the campus: for women, Alpha Delta Pi, Alpha Gamma Delta, Alpha Xi Delta, Delta Zeta, Gamma Phi Beta, Phi Mu, and Sigma Kappa; for men, Alpha Epsilon Pi, Kappa Alpha, Kappa Sigma, Lambda Chi Alpha, Pi Kappa Alpha, Sigma Alpha Epsilon, Sigma Chi, and Sigma Phi Epsilon. Students carrying as many as 12 hours and maintaining a "C" average for the preceding semester may be members on invitation.

**Clubs.**—The university has a number of clubs which serve the diverse interests of the students.

The Accounting Club is organized to foster interest in the study of accounting. Its activities include professional meetings, tours of business organizations, and other contacts with the practical activities in the field of accounting.

The Arabesque Club is open to all students interested in music. Its objective is the promotion of interest in music through production and participation in musical activities in Memphis.

The Art Club is open to all students interested in art. Its objective is the fostering of interest in art. Periodic art exhibits, speakers and tours of the art gallery are its activities.

The Biology Club, open to all students interested in biology, is designed to stimulate further interest in the various fields of biology through visiting speakers, motion pictures, and group discussions.

The Chemistry Club functions as a student affiliate section of the American Chemical Society. Membership is open to any man or woman who is a major in chemistry or who has a great interest in the chemical fields. Programs offer professional contacts with many speakers outstanding in the field of chemistry.

The Cub Club is organized to foster school spirit. The members are elected from every club and organization on the campus. Fifteen freshmen are also invited to join annually. The club is responsible for most of the pre-sport activities, such as posters and decorating.

"Deutscher Verein" is a German language club open to all students. Its monthly meetings are devoted to the practice of the German language and songs, to lectures and discussions of topics involving German cultures, customs, literature, and art.

The En Garde Fencing Club is open to all former and present students of fencing classes who are interested in furthering their skill and engaging in competition in and outside of the regular college program. The club also holds fencing tournaments and officiates the intra-mural tournament.

Entre Nous is a social organization open to all women on campus regardless of other affiliations. It offers them an opportunity to participate fully in all campus activities.

Euparthenes is a social organization open to all women belonging to sororities who do not have chapters on this campus.

The Men's Independents Club promotes the interests and social life of men students who do not belong to Greek letter organizations.

Inservo is an Industrial Art Service Organization. Membership is open to Memphis State University students actively engaged in college preparation for any of several professions in industry and for teaching industrial arts.

The Ioka Wikewam Club, open to any girl taking a home economics course, is designed to stimulate interest in home economics and current topics in this field and to develop better citizens and social leaders.

The American Marketing Association has chartered a collegiate chapter of the Association at Memphis State University. It is sponsored by the Department of Marketing. The function of this group is to develop a broad understanding of marketing and a close affiliation with the persons who are responsible for the operation of the marketing institutions in the community.

The Mathematics Club is open to all students interested in mathematics. Its monthly meetings are devoted to discussion of mathematical topics of general interest but not usually included in formal courses.

Theta Rho Chapter of Phi Mu Alpha Sinfonia is a professional music fraternity for men. It seeks to maintain a continuing spirit of brotherhood among men of music, to engage in or support musical projects in the University, to aid deserving students of music in whatever way possible, and to encourage and support local music programs.

The Memphis State University Dance Club is an organization for students interested in the dance and open to all students who have completed one semester of modern dance or the equivalent and who meet the qualifications set up by the club. The purpose of the club is to further participation and interest in the field of dance by working together, by sharing cultural and practical experiences in dance, dance

choreography, and dance presentation, and by providing entertainment for others through the presentation of programs, both formal and informal.

The Physical Education Majors Club is open to all students interested in physical education, health, and recreation. It endeavors to promote better fellowship, to develop leadership, and to increase an understanding of problems and opportunities in the profession.

The Psychology Club is designed to promote interest in the field of psychology through programs and reports dealing with current problems. The club is not limited to majors or minors in the department but is open to all students who share an interest in psychology.

The Physics Club is open to majors and those interested in the field who wish to participate in extra-curricular activities related to physics. It seeks affiliation with a national physics fraternity.

The University Chapter of the Society for Advancement of Management (S.A.M.) has as its objectives: To bring executives in business and students preparing to go into business closer together; to serve as an effective medium for the exchange and study of information on the problems, policies, and methods of industry and management; and to provide students with the opportunity to participate in the organizing, planning, directing, and controlling of the activities of an organization dedicated to the promotion and advancement of the art and science of management.

The Memphis State Student Education Association is an organization of the leaders in the field of education. Through speakers, visits to schools, and discussions, the organization promotes good fellowship and understanding of the problems and opportunities of the profession. It is affiliated with both the Association of Childhood Education and the Student National Education Association.

The Social Science Club, open to social science majors and minors, promotes the advancement of the social sciences as the key to the understanding of human relationships, investigates professional opportunities available in the field of social studies, and concerns itself with promoting good fellowship and common interests on the part of its members.

Sock and Buskin is an organization for students interested in the drama. Its purpose is to further the educational benefits which a theatrical program can furnish to the university community. It encourages the training of actors, directors, and stage technicians for the university theatre and for the school and community theatres of the area served by the university. It strives to develop an appreciation of good theatrical productions. Membership is open to all students who meet the qualifications of the club.

The Trampoline Club is an organization for the students interested in gymnastics and trampoline. It meets weekly. It strives to develop skill and appreciation for gymnastic activities. The Trampoline Club offers opportunities for competition and demonstrations.

The White Cap Club is composed of students who are pursuing a baccalaureate degree in nursing and are jointly enrolled at Memphis State University and the University of Tennessee School of Nursing. The purpose of this organization is to promote a better understanding of, and appreciation for, collegiate nursing.

Religious Life on the campus is under the direction of a faculty committee and a student religious council functioning as a part of the Student Government. Denominational clubs organized to promote

religious activities are: Baptist Student Union, Canterbury Club, Christian Science, Disciples of Student Fellowship, Hillel, "K" Club, Memphis State Christian Fellowship, Newman Club, Wesley Foundation, Westminster Fellowship, and Whittenburg Club.

**Honorary Fraternities**—Alpha Lambda Delta, a national honor society for freshmen women, elects membership each year from freshmen women students who have maintained a scholastic average of 3.5 during the first semester or for the entire year. The organization cooperates with Tassel in encouraging high academic standards among women students.

Alpha Psi Omega, a national honorary dramatic fraternity, was organized to provide an honor society for those doing a high quality of work in dramatics and to encourage a wider fellowship for those interested in the university theatre. The fraternity is not intended to take the place of the regular dramatic club or other producing groups, but as students qualify, they are rewarded by election to membership in this society.

The Arnold Air Society is a national military fraternity honoring the late General of the Air Force, Henry H. Arnold. Membership is restricted to advanced Air Force ROTC cadets who have excelled in military leadership and military studies. The professional fraternity is dedicated to the preservation and development of the qualities of good and efficient officers and to the dissemination of true and adequate information concerning the national defense requirements of the United States.

Phi Chapter of Chi Beta Phi, national honorary scientific fraternity, was established to provide the opportunity for the advancement of scientific knowledge, to stimulate scientific investigation and sound scholarship, and to serve as a means of awarding distinction to students of exceptional scientific ability.

Delta Kappa is a leadership fraternity whose purpose is to recognize men who have attained a high standard of efficiency in collegiate activities, and to inspire others to strive for similar attainment. Delta Kappa was founded and chartered at Memphis State University in the spring of 1950. The club membership is limited to one percent of the student body.

The Liberal Arts Honor Society, sponsored by members of Phi Beta Kappa on the faculty, and devoted to the encouragement of superior scholarship, elects to membership each year several outstanding students from the School of Arts and Sciences. Criteria for selection include "sound moral character, broad cultural interests, and scholarly achievements."

Phi Alpha Theta, honorary history fraternity open to students majoring in history, is based on scholastic achievement.

Phi Delta Epsilon is a national honorary journalism fraternity that recognizes outstanding work done on the university publications, including *The DeSoto*, and *The Tiger Rag*. Only juniors and seniors who have had at least one year on a university publication and who have done outstanding work are considered for membership.

Phi Delta Kappa is a national honorary professional education fraternity open to graduate and undergraduate men who are preparing definitely for a life career in educational service. Its ideals are research, service, and leadership.

Kappa Chapter of Pi Sigma Epsilon is the National Professional Fraternity in Marketing, Salesmanship and Sales Management. It was

organized to create a collegiate brotherhood of men interested in the advancement of these areas of business as a career and a profession, to promote further study in these fields, and to bring together academically qualified students who express a desire to enter these fields. Students majoring or minoring in marketing, who maintain an average of "C" or above may become members upon invitation.

**Psi Chi** is a chapter of the national honorary society for psychology majors and minors. The purpose of this organization is to advance the science of psychology, and to encourage, stimulate, and maintain the scholarship of the individual members in all fields, particularly in psychology. A scholarship average which ranks the student in the upper third in psychology subjects and the upper half in all other subjects is required.

**Gamma Delta Chapter of Sigma Delta Pi**, national Spanish honor fraternity, has been established with these purposes: "to foment a wider knowledge of and a greater love for the Hispanic contributions to modern culture; to foster friendly relations and the cooperative spirit between the nations of Hispanic speech and those of English speech; and to reward those who show special attainments and interests."

**Tassel** is a senior honor society for women students. It recognizes scholarship, leadership, and service by inviting into membership women students who are outstanding in these areas.

**Tau Delta Tau** is a senior women's honor society for those students outstanding in the sciences: chemistry, biology, mathematics, physics, and psychology. A scholarship average of 3.2 must be maintained for eligibility. Interest and leadership in the sciences is encouraged.

**Tau Kappa Alpha**, a national honor forensics fraternity, was organized for the purpose of encouraging and rewarding outstanding achievement in the field of forensics. Membership eligibility is based on two years of active participation by a student in forensics or participation in his senior year. A student must be in the upper 35% of his class.

**Professional Fraternities.**—**Gamma Zeta Chapter of the International Fraternity of Delta Sigma Pi** is a professional fraternity organized to encourage scholarship and the association of students for their mutual advancement in the field of commerce. Its membership is selected from those students majoring in business administration who have maintained a general scholastic average of "C" and an average of better than "C" in business administration.

**Sigma Chapter of Phi Gamma Nu** is a professional sorority for girls whose major interest is business administration. The sorority seeks to promote closer friendship and loyalty among the members, to promote a high standard of scholarship, to encourage participation in school activities, and to stimulate interest in civic and professional enterprises.

**Student Publications.**—**The DeSoto**, university annual, is designed to record campus activities in an attractive and permanent form and to keep alive the memories of university life.

**The Tiger Rag**, student newspaper, provides timely news of university organizations and activities. It is an organ for the expression of student thought and it works to create a wholesome school spirit and to support the best traditions of the university. For interested students it provides training in useful and purposeful writing.

Phoenix, a literary magazine, is the outgrowth of creative writing in the department of English.

**Art Activities.**—The Department of Art sponsors monthly exhibitions of art works during the college year. National and local talent is displayed in the university gallery in addition to faculty shows and the Annual Student Exhibit. Occasional lecturers and films on art are also part of the department's yearly program.

**Musical Activities.**—The Department of Music presents each year a variety of programs in which students are invited to participate. All of these activities are open to any qualified student, regardless of the student's major area of study. The University Band, the Concert Orchestra, the Music Education Orchestra, and the University Chorus are heard in concerts each semester, and frequent recitals are presented throughout the year by faculty members, students, and guest artists.

Annual events are the presentations of a major oratorio and a grand opera, the latter in cooperation with the Department of Speech and Drama.

Copies of the programs of the 1959-60 season will be mailed on request. Address your letter to Chairman, Department of Music.

**Speech and Dramatic Activities.**—The University Theatre offers an extensive program each year. Usually four major productions are presented, and from six to ten one-act plays. Students are invited to try-outs for all plays. Majors in the field of speech and drama are given opportunity to design and direct one-act plays.

Memphis State University is host to a major portion of the activities of the Annual Memphis Shakespeare Festival. Such activities include a production of one of Shakespeare's plays, in addition to films, lectures, displays, and exhibits.

The Green Room Drama Group is a student-organized, student-operated project which offers experimental studies of a variety of dramatic forms for audience criticism and evaluation. It is open to all interested students, and provides additional opportunities for dramatic participation.

The Forensics Association is open to all students interested in forensics. Members of this group participate in debate, extemporaneous speaking, oratory, after-dinner speaking, discussion, and oral interpretation. From this group are chosen those who represent the university in intercollegiate competition and those who assist with such campus programs as the annual speech intramurals, the high school institutes program, and regional and state contests.

The Memphis State Entertainment Bureau has been formed as an outlet for the growth and development of students in the field of entertainment. Directed by the Speech and Drama Department, it has assisted the recreation departments of various organizations throughout this area.

**ATHLETICS.**—The university sponsors a two-phase program of athletics, intramural and intercollegiate.

In the intramural program, which is active throughout the year, tournaments and contests are held in the seasonal sports. Students are offered an opportunity to compete as individuals or members of teams from the various student organizations. Softball, touchball, basketball, volleyball, and track are offered for team participation. Individual

recreation is offered in tennis, shuffleboard, badminton, table tennis, and archery. An athletic supply room is open throughout the day from which recreational equipment may be checked out by all students.

The intercollegiate athletic program consists of sponsoring teams in football, basketball, baseball, track, golf, and tennis. These teams compete in a regular schedule with teams from other recognized institutions of the same scholastic level as Memphis State. All equipment and excellent coaching is provided for members of all the intercollegiate teams.

Athletic facilities on the campus include two gymnasiums, ten all weather tennis courts, football field, quarter mile running track, baseball and softball fields. All policies of the intramural and athletic program are set by the university athletic committee.

The Department of Health and Physical Education is closely associated with the intramural and intercollegiate programs. All coaches serve as instructors in this department and students majoring in health and physical education utilize the two programs and facilities in preparation for careers as coaches and in the field of health and physical education.

## **FEES AND EXPENSES**

**Tuition:**—Tuition is free for students who are residents of Tennessee. Non-resident students are charged \$82.50 per semester.

**Registration Fee:**—A single composite registration fee of \$82.50 per semester is charged for all regular students who are residents of Tennessee. Non-residents are charged \$165.00 per semester. (This includes the \$82.50 tuition for out-of-state students.) This fee covers registration, student activity, laboratory and instructional fees formerly charged.

**Part-time and Off-campus Students:**—The State Board of Education at its meeting on November 8, 1957, authorized that fees for off-campus and part-time students be as follows, effective September 1, 1958:

### **A. Off Campus:**

1. Undergraduates, residents of Tennessee: \$7.50 per semester hour.
2. Undergraduates, non-residents of Tennessee: \$15.00 per semester hour.
3. Graduates, residents of Tennessee: \$9.00 per semester hour.
4. Graduates, non-residents of Tennessee: \$18.00 per semester hour.

### **B. Part-time, On Campus:**

1. Undergraduate, residents of Tennessee: \$7.50 per semester hour.
2. Undergraduate, non-residents of Tennessee: \$15.00 per semester hour.
3. Graduates, residents of Tennessee: \$9.00 per semester hour.
4. Graduates, non-residents of Tennessee: \$18.00 per semester hour.

**Summer Session:**—Students registering for 8 semester hours or more for the summer session will pay a registration fee of \$55.00. Students registering for less than 8 hours will pay at the part-time rate.

**Fees for Private Lessons in Music:**—Music 050, 051, 052, 054, 056, 150, 151, 152, 154, 156, 302, 303, 305, 306, 350, 351, 352, 354, 356, 405, 406 have the following fees:

One thirty-minute lesson weekly, per semester.....\$33.75

Two thirty-minute lessons weekly, per semester..... 67.50

Music 059, 159, and 359 have the following fees:

One thirty-minute lesson weekly, per semester.....\$ 60.00

Two thirty-minute lessons weekly, per semester..... 120.00

**Room Rent:**—Room rent in any dormitory is \$67.50 per semester. Rent for the summer session is \$4.00 per week. Students are responsible for damage to or breakage of dormitory property. A key deposit of \$1.00 is required of each student living in a dormitory and is refunded upon return of the key.

**Cafeteria:**—The cafeteria is open to all students. The approximate cost of meals per day is \$2.00.

**Late Registration Fee:**—Registration should be completed within the official registration period. Registration is not complete until all fees for the semester have been paid. For registration after the day or days announced, an extra fee of \$1.00 each day is charged. Students who delay more than 30 days in completing their registration will not be allowed to register the following semester.

**Fee for Late Examination:**—Students must pay a fee of \$1.00 for each final examination taken late. A receipt from the bursar's office will admit the student to any late examinations that he is entitled to take. The receipt must be forwarded to the registrar's office by the teacher along with the final grade as a requisite for the recording of the final grade of the course.

Students are allowed to take late or special examinations only with the approval of the director of the school concerned and after the payment of the late examination fee. Courses in which the student fails to take the final examination and for which he is not entitled to a late or special examination are entered as failed in the registrar's office.

**Transcript Fee:**—One copy of a student's record is furnished free. For each additional transcript, a fee of \$1.00 is charged. Transcripts of records are issued only at the request of the student or his authorized agent.

**Diploma Fee:**—Degree candidates pay a fee of \$15.00, which includes the fee for the diploma, the rental of cap and gown, and other incidentals connected with commencement exercises. This fee is payable thirty days before graduation.

**Breakage Cards:**—Students in chemistry, physics, and industrial arts are required to purchase breakage cards. Any unused balance is refunded at the close of the semester.

**Payment and Refund of Fees:**—All fees are payable in advance. If a student withdraws within seven days after the beginning of classes for the semester, a refund will be made of 80% of fees. Each week thereafter, the amount will be reduced 20%. The diploma fee is not refunded. Rooms are rented by the semester in advance. No reduction is made for late registration or for an absence of less than two weeks. No student may enroll, graduate, or receive a transcript of his record until all accounts are settled. The term "account" includes any indebtedness to the University.

## **ADMISSION**

### **METHODS OF ADMISSION**

Freshmen are admitted by any one of the following methods:

1. By a transcript of credits showing graduation from an approved high school.
2. By certificate and examination. An applicant from an unapproved school who presents a satisfactory certificate will be required to take examinations only in subjects covering four units of high school work taken in the senior year.
3. By examination. An applicant who does not present a satisfactory certificate may be admitted by passing examinations on fifteen units required for graduation in an approved high school.
4. Young men and women who are twenty-one years of age and over, and who have not completed four years of high school work may be admitted as special students and permitted to take such courses as they are prepared for, provided that such special students must satisfy all entrance requirements to qualify for a degree.

### **ADMISSION PROCEDURE**

A student desiring to enter Memphis State University for the first time should secure an application form and a Health Service Record Card from the Registrar's Office. These forms when completed are to be returned to the Registrar. A student entering directly from high school should request his principal to mail to the University an official transcript of his high school work. A student entering from another college or other colleges should request the registrar of each college attended to mail an official transcript to Memphis State University. To prevent delay in completing registration, all credentials, including the completed application form and the official transcript, should be on file in the Registrar's Office of this institution before the beginning of the term for which application is made. All transcripts received become the property of the University. Applicants will be notified whether or not they have been approved for admission. Beginning in September, 1958, the University will give entrance examinations to all new students.

### **ADVANCED STANDING**

Advanced standing will be granted to students who have honorable dismissal from accredited institutions and who have completed with a grade of C or higher courses equivalent to those offered at Memphis State University toward a degree. Courses completed in other institutions with a grade of D will not be accepted for credit.

Students submitting advanced standing from unaccredited colleges will be given consideration. Each case will be considered individually. Credit may be accepted tentatively. In no case would credit be recorded until it has been validated by satisfactory work for one or more semesters.

Advanced standing of not more than 72 semester hours will be accepted from a junior college.

### **ADVISORY SYSTEM**

Every student entering Memphis State University is assigned an advisor whose function it is to assist the student in planning his course and preparing his schedule, and to counsel him on all scholastic matters. This assistance to the student on the part of the university does not, however, relieve the student of the responsibility of studying the catalog himself and fulfilling all of the requirements therein for his particular goal. It is expected that a student who has attained senior standing will consult with the director of his school in regard to the fulfilling of the requirements for a degree.

### **GENERAL TESTS**

All freshmen will take such tests as are specified by the Committee on Admissions and by the schools in which the students are enrolled.

### **DEGREES**

Memphis State University confers the following degrees: Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, Bachelor of Science, Bachelor of Business Administration, Bachelor of Science in Education, and Master of Arts. The Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music, and Bachelor of Science degrees are offered in the School of Arts and Sciences; the Bachelor of Business Administration is offered in The School of Business; and the Bachelor of Science in Education is offered in the School of Education. The specific requirements for these degrees are set forth in the several schools.

### **GENERAL REQUIREMENTS FOR GRADUATION**

Basic courses required of all graduates from Memphis State University are English 111, 112, 211, 212; History 221, 222; one year of science; and four semesters of physical education or its equivalent.

Four semesters of physical education activity courses are required of all students except those completing two years of AF-ROTC, in which case only two semesters are required. All students are required to take Physical Education 100 for one semester. Those passing may complete their requirement by selecting activity courses on the 200 level. No student other than a Physical Education major may apply more than 4 semester hours of basic Physical Education to the minimum degree requirement of 132 semester hours. If officially excused from active participation, the student is still required to register for these courses, but will attend the class held for the inactive group.

To receive a Bachelor's degree from any of the schools in the university, a student must have at least 132 semester hours credit and at least 264 quality points. If for any reason a student offers more than 132 semester hours credit for graduation, the ratio of two quality points to one semester hour credit must be maintained. To attain this standard the candidate must have a C average on all courses attempted in the university.

Students who enter Memphis State University with advanced standing are required to maintain an average of C on all courses taken here.

A student can complete the resident requirements for graduation by establishing residence as a regular student for not less than two of the four semesters of his junior and senior years, provided that his last semester as a regular student shall be in residence. A student having completed the two semesters of residence in his junior and senior years as a regular student and lacking NO MORE than four semester hours toward completion of degree requirements, may earn these additional credits by residence at another approved institution, or by acceptable correspondence or extension work.

### **GRADUATION WITH DISTINCTION**

Memphis State University gives special recognition to those of its graduates who have attained certain scholastic standards and fulfilled certain other requirements adopted by the faculty of the university.

### **DEFERRED GRADUATION**

Students are ordinarily allowed to graduate under the requirements of the catalog of the year in which they enter. If a student begins work on a degree and fails to complete the required work for the degree, he must, after seven years from the date he entered, reorganize his degree plan to conform to the current catalog.

### **EXTENSION DIVISION**

Memphis State University has for a number of years conducted general education workshops. The increasing demand for these services has resulted in the organization of an Extension Division. The Extension Division was authorized by the State Board of Education in 1951 to afford an official avenue through which university services could be extended off-campus.

#### **Extension Class Instruction**

Both undergraduate and graduate courses are given at centers within the state where suitable arrangements are made in advance. The subject matter of these extension courses is the same as that of similar courses taught on the campus and grades received in these courses have the same quality value as do grades received in courses taught at the University. Regularly employed staff members of the University teach extension courses.

#### **Credit by Correspondence or Extension**

Memphis State University does not offer correspondence work but does accept credits earned by correspondence or extension, provided that such credits are taken from an institution which is a member of the Teachers College Extension Association, the University Extension Association, or the appropriate regional accrediting association. Not more than one-fourth of the credits applied on the bachelor's degree may be earned by correspondence or extension or a combination of the two.

No student is permitted to enroll for correspondence or extension courses while carrying a full load at Memphis State University. A student with less than a maximum load is not permitted to enroll for correspondence or extension without special permission from the director of his school.

### Other Extension Services

Where circumstances justify, the Extension Division attempts to provide various types of help to organized groups within the service area. This assistance may take the form of such activities as conferences, public addresses, consultative service, and other types of school and community aid. Regularly employed staff members of Memphis State University are available for this service.

To the end that an effective extension service may be carried on by Memphis State University, correspondence is invited with groups or individuals who are interested. Please address:

Extension Division  
Memphis State University  
Room 202 Administration Building  
Memphis, Tennessee

### EVENING DIVISION

The Evening Division was established to provide an undergraduate degree program for those who could not attend day classes. Courses are offered in all three of the undergraduate schools. Credit earned in the Evening Division is classified as residence credit.

Students may take courses in both the day and evening programs without additional cost.

### GRADES AND GRADE POINTS

Grade	Numerical Equivalent	Quality Point Value for Each Semester Hour
A	95-100	4
B	85- 94	3
C	75- 84	2
D	65- 74	1
F	64 or below	0
I	Incomplete	

In arriving at the student's scholarship ratio all courses attempted are included. As an example, a student carrying five courses for a total of 15 hours makes the following grades: A, B, C, D, F—accumulating grade points 12, 9, 6, 3, 0, for a total of 30 grade points. In arriving at his scholarship ratio, the number of hours attempted, 15, is divided into the grade points earned, as follows: 30 divided by 15 = 2.0.

The grade "I" indicates that a student has not completed the course for some unavoidable reason that is acceptable to his instructor. This grade may be changed by the instructor and credit allowed when the requirements of the course have been met, provided the work has been completed within the first four weeks of the next semester the student is in residence; and provided further that the deficiency must be made up within one calendar year from the date the grade of "I" was given, even if the student has not reentered college. If the student fails to complete the course within the specified time, no credit will be given for the course. The fee for late examination is \$1.00.

All grades, with the exception of "I," when once reported, can be changed only by the instructor who reported them, and then only after the faculty has voted approval of the change.

A student has the privilege of repeating a course in an attempt to improve the grade previously made. The grade he makes the last time the course is taken is the grade that will be considered as the final grade.

### **THE UNIT OF CREDIT**

One semester hour of credit is based upon one hour per week in lecture or recitations for one semester; or upon two hours per week of laboratory work for one semester.

### **CLASSIFICATIONS OF STUDENTS**

Students having 25 semester hours of credit and two semesters of residence are classified as sophomores; students having 55 semester hours of credit and four semesters of residence are classified as juniors; students having 85 semester hours of credit and six semesters of residence are classified as seniors.

**Special Students.** Only those students who are registered for post-graduate courses for undergraduate credit are classified as special students. All others are classified as Freshmen, Sophomores, Juniors, Seniors or Graduate Students.

Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements, must schedule these uncompleted requirements the first semester following that such courses are available.

### **CREDIT LOAD**

The minimum number of hours each semester for a regular student is twelve. The maximum load for a student with less than a B average (3.0) is eighteen hours each semester or nineteen with the required physical education. Students who have a B average for a semester may, with the permission of the director of their school, schedule a maximum of twenty-one hours the following semester.

During the summer session eight hours will be the minimum load, twelve hours the average load, and fourteen hours the maximum load for a regular student. Not more than seven hours may be scheduled in either term of the summer session.

Only those students who enter the first week of a semester are allowed to make full credit; late entrants are required to limit their loads.

Students who are working to support themselves should reduce their academic load; counting two hours preparation for each credit hour, they should not schedule more than an eight-hour working day for their combined academic and business duties.

### **ABSENCE, DROPPING, WITHDRAWAL**

In no case is credit allowed in any course for which the student is not duly registered; and all courses for which the student is registered are recorded as passed, failed, or dropped. No student will be granted credit for a subject which does not appear, properly signed, on his registration card in the registrar's office.

A course may be dropped only by permission of the advisor and the director of the school in which the student is registered. Only under special circumstances will dropping be permitted after the fifth week.

Dropping a course without permission incurs a mark of "F."

Absence from final examinations without the permission of the instructor incurs a mark of "F."

Absences are counted from the first scheduled meeting of the class. Absences may be excused only by the instructor.

Withdrawal from the university should be reported to the dean's office promptly in writing. Evening Division students should report their withdrawals to the office of the Director of the Evening Division.

A withdrawal is not permitted within one week of the beginning of the final examination period of a semester or a summer term. Any student who withdraws after the drop period ends will have all courses not previously dropped recorded as: WP—Withdrew Passing or WF—Withdrew Failing. The parent or guardian of minor students will be advised of withdrawals.

### **CHANGE OF COURSE**

A period of five days (three days during the summer session) including the first day that classes meet, will be allowed for course changes. This will include adding and dropping courses, eliminating conflicts, and changing sections.

### **RETENTION STANDARDS**

A minimum quality point average of 2.0 is required for graduation. Students who have acquired 66 or more semester hours credit with less than a 2.0 average will be warned. Failure to bring the scholastic average up to 2.0 in a reasonable time will lead to exclusion from the University.

### **PROBATION**

A student who makes less than a 1.5 quality point average or passes less than 50% of his attempted load will be placed on scholastic probation. If, during his next semester of attendance, the student's quality point average is again below 1.5 or he passes less than 50% of the work attempted he will be suspended for an indefinite period of not less than one full semester.

Upon being readmitted the student must remove probation during the first semester of his readmittance. A quality point average of 1.5 together with the passing of 50% of his attempted load will remove the student from probation.

Any student who fails probation the second time is permanently excluded from the University. A student who withdraws while on scholastic probation is presumed to have failed his probation.

### **DEAN'S LIST**

The dean's list is composed of those students who make at least three "A's," not more than two "B's," no "C's," and who are carrying not less than fifteen hours exclusive of required physical education and who complete all courses for which they registered.

### **THE HONOR ROLL**

For the selection of honor students, the faculty has adopted the following regulations:

1. Only those students who matriculate for at least 12 hours credit, complete all courses, make some honor points, and are otherwise in good standing, are eligible for the honor roll. Students on probation, and others who are scholastically deficient, are not eligible.

2. From the list of eligibles the highest ten per cent are selected on the basis of honor points earned.

3. For a grade of B, 5 honor points for each semester hour are allowed; for a grade of A, 10 points.

### **THREE-YEAR PRE-PROFESSIONAL CURRICULUM**

A student who takes six semesters of undergraduate work before entering an advanced professional school may, upon evidence of satisfactory completion of the first year of professional work, be granted the Bachelors Degree from Memphis State University, provided:

1. That the minimum requirement for entrance to the professional school is sixty semester hours of undergraduate work.
2. That the professional school is an integral part of a university accredited by the appropriate regional association, or that the professional school is accredited by the recognized national association in its field.
3. That the last two semesters of pre-professional work be done at Memphis State University.
4. That the candidate complete 99 semester hours in pre-professional courses.
5. That the candidate complete, in his pre-professional work, at least twenty-four semester hours in courses numbered above 299, including at least six semester hours in his major field.
6. That the candidate meet all freshman and sophomore requirements of the degree curriculum.
7. That the candidate complete a minimum of twenty-four semester hours in his major area and eighteen semester hours in a minor area.

The candidate in the pre-professional degree curriculum should notify the dean of the university and the director of his school of his intentions no later than the beginning of his sophomore year, and should, with the guidance of his major professor, plan his study program at that time.

### **PREPARATION FOR PROFESSIONAL STUDY**

Memphis State University offers thorough pre-professional preparation for the study of dentistry, engineering, law, medicine, optometry, and pharmacy. Those students whose interests are in dentistry, medicine, optometry, or pharmacy will be guided by the Departments of Chemistry and Biology; those whose interests are in law will be guided by the Departments of English, Social Science, Accounting, or Business Management, and those whose interests are in engineering will be guided by the Departments of Mathematics and Chemistry. The sequence of courses required for the several pre-professional studies are available at the offices of the school directors.

Students expecting to enter schools of Medicine, Pharmacy, Dentistry, or Optometry should follow the program suggested by the schools in which they expect to enroll. The department of Physical Sciences suggests that students who expect to enter the Biological Sciences at the Medical School take the following courses in this department:

First year—Chemistry 111, Chemistry 112

Second year—Chemistry 200, Chemistry 201

Physics 211, Physics 212

Third year—Chemistry 321, Chemistry 322

A student who takes six semesters of undergraduate work before entering an advanced professional school may, upon evidence of satisfactory completion of the first year of professional work, be granted the Bachelors Degree from Memphis State University, provided the requirements set forth in the three year Pre-Professional curriculum described in this catalogue are met.

### **AFROTC BASIC TRAINING PROGRAM**

All able-bodied regular male students under 26 years of age, except those who have served an extended period of active military duty, are required to take the first two years (basic training) of the AFROTC program. If a student who is required to take part in this program fails to schedule this prescribed basic training any semester, he will not be allowed to re-enter Memphis State University any subsequent term without scheduling the proper basic training course each semester thereafter until the two years of basic training has been successfully completed, unless excused by the Professor of Air Science.

### **COURSE NUMBERS**

Courses numbered from 100 to 199 are in freshman rank; 200 to 299, sophomore rank; 300 to 399, junior rank; 400 to 499, senior rank. Figures in parentheses following the title of a course indicate the number of semester hours of credit.

### **UNIVERSITY ORGANIZATION**

Memphis State University is organized into the following divisions: The School of Arts and Sciences, The School of Business, The School of Education, and The Graduate School.

## DEPARTMENT OF AIR SCIENCE

The following personnel are assigned to the Department of Air Science:

NAME	RANK AND TITLE
Hawkins, Gabe C.....	Colonel, Professor of Air Science
Anderson, George L.....	Lt. Colonel, Assistant Professor of Air Science
Phillips, Carthon P.....	Major, Assistant Professor of Air Science
Ayton, George V.....	Captain, Assistant Professor of Air Science
Fontaine, Richard C.....	Captain, Assistant Professor of Air Science
Hathaway, McKinley J.....	Captain, Assistant Professor of Air Science
Jessen, William D.....	Captain, Assistant Professor of Air Science
Terry, Hal M. Jr.....	Captain, Assistant Professor of Air Science
Woollard, Oliver Slaton Jr....	Captain, Assistant Professor of Air Science
Wagster, Woodrow W.,	Master Sergeant, Sergeant Major
Rasar, George,	Master Sergeant, Non-Commissioned Officer Supply
Gafford, Donald K.,	Technical Sergeant, Non-Commissioned Officer Personnel Records
Campbell, Ernest R.,	Staff Sergeant, Non-Commissioned Officer Cadet Administration
Cabler, Cullen L.,	Staff Sergeant, Assistant Commandant of Cadets
Turner, Joe T.,	Staff Sergeant, Assistant Non-Commissioned Officer Supply

The purpose of the AF ROTC program is to select and train students to serve as officers in the Regular and Reserve components of the United States Air Force.

To secure a ROTC commission in the Air Force, the cadet must: (1) complete the four-year course of instruction or have credit in lieu of portions of the training; (2) complete a summer training unit; (3) secure a baccalaureate degree from the university; and (4) be physically qualified.

Military Deferments of AF ROTC cadets are based upon: (1) scholastic standing; (2) the student's potential for leadership; (3) physical examination status. Normally, deferments for freshmen (Air Science 111 students) will not be submitted until the second semester of AF ROTC. The reason for this is to permit the Department of Air Science to determine whether or not the student's scholastic standing is sufficient to warrant a deferment.

Deferments once granted remain in effect for so long as the ROTC cadet remains in good standing and until he receives his degree and commission. Some reasons for not submitting a deferment or withdrawing a deferment on a cadet are: (1) poor scholastic record; (2) lack of military aptitude; (3) lack of leadership potential; (4) excessive absences; (5) withdrawal from the university; (6) physical reasons.

The AF ROTC program is a full four-year course. The first two years (freshman and sophomore) are known as the Basic Course, which is required of all able-bodied male students at Memphis State University who are between 14 and 26 years of age. Members of the Reserves of the Armed Forces are not excused from taking the Basic Course, unless they have also served a period of extended active military duty.

Reservists who have served six months active duty for training under the provisions of the Reserve Forces Act of 1955 are not considered veterans but may be excused from taking the Basic Course during their freshman and sophomore years upon the approval of the Professor of Air Science. However, to be eligible for consideration for Advanced ROTC (junior and senior years) they must enroll in the Basic Course. (AF ROTC training will be accepted on a year-for-year basis as fulfilling reserve training requirements prescribed in the act.) All students meeting the requirements to be excused from the Basic Course and who desire such action should bring to registration necessary evidence of active duty.

The last two years (junior and senior) are known as the Advanced Course. Cadets are selected for the Advanced Course when they complete the Basic Course, normally at the end of their sophomore year. Standards used in selecting the cadets for the Advanced Course are: (1) physical qualifications; (2) leadership potential; (3) scholastic standing; (4) recommendations of instructors and tactical officers. All cadets who desire to enroll in the Advanced Course cannot be accommodated. This is the time when the selection process takes place, which is based upon competition among the cadets in accordance with the standards listed above. Students who complete the Basic Course, may, if they so desire, withdraw from the AF ROTC program.

While veterans may be excused from taking the Basic Course, any veteran who desires to apply for the Advanced Course must have been enrolled in each semester of the Basic Course while attending Memphis State University as a freshman or sophomore. (Veterans and reservists who elect to enroll in AF ROTC may drop out only under the rules governing any other university course.)

Advanced cadets will be required to attend a summer training unit for a period of four to six weeks between the junior and senior years.

Cadets will be required to participate in the Veterans Day Parade and in a review for the Homecoming Football Game.

A \$15.00 uniform deposit is required of all basic cadets, and a \$20.00 deposit is required of all advanced cadets. A deposit is made in the office of the bursar prior to enrollment. All items lost or damaged must be paid for by the student concerned. When all items are turned in the deposit is returned.

All senior cadets enrolled under Category I (Pilot) are required to pursue a flight training program. This program includes 35 hours of instruction in single engine training type aircraft conducted by a civilian flying school selected by Memphis State University.

### **DESCRIPTION OF COURSES**

#### **Air Science 111—Foundations of Air Power I—(1 credit hour)**

A laboratory course which meets two hours weekly on Monday or Wednesday and Friday from 12:10—1:00 P.M. Subject matter coverage includes orientation to AFROTC, basic military leadership principles and practice, and participation in military drills and ceremonies. Each student enrolling in Air Science 111 is also required to enroll in one of several University conducted freshman level courses which will be announced in the University Fall Bulletin.

#### **Air Science 112—Foundations of Air Power I—(2 credit hours)**

An introduction to the fundamentals of Air Power, to include elements of Air Power, basic aeronautical science, and the organization and operation of the military arm of the Federal Government.

#### **Air Science 211—Foundations of Air Power II—(2 credit hours)**

A more advanced consideration of Air Power and the development of aerial warfare, with emphasis on the basic concepts governing the employment of air forces and weapons systems. Treatment of aerial warfare covers targets, weapon systems, delivery vehicles, bases and operations.

#### **Air Science 212—Foundations of Air Power II—(1 credit hour)**

A laboratory course which meets two hours weekly on Monday or Wednesday and Friday from 12:10—1:00 P.M. Subject matter coverage includes participation in practical leadership activities involving small groups, moral foundations of leadership; and participation in military drills and ceremonies. Each student enrolling in Air Science 212 will be required to enroll in one of several University conducted sophomore level courses which will be announced in the University Spring Bulletin.

#### **Air Science 311-312—Air Force Officer Development—(3 credits each semester)**

A treatment of the knowledge and skills required of a junior officer in the Air Force with special emphasis on staff duties and leadership. Includes Air Force leadership doctrine, staff organization and functions, communicating, instructing, problem solving techniques, leadership principles and practices, and the military justice system.

#### **\*Air Science 411-412—Global Relations—(3 credits each semester)**

A study of global relations of special concern to the Air Force Officer with attention to such aspects as weather, navigation, geography, and international relations, and briefing for commissioned service.

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\*Air Science 4 cadets will be required to enroll in certain University courses which have been substituted for portions of the Air Force ROTC curriculum.

Note: Students enrolled in AFROTC will not be permitted to register for other than AFROTC courses during the period 12:10—1:00 P.M. on Monday, Wednesday, and Friday.

## DEPARTMENT OF INDUSTRIAL ARTS

**Mr. Coltharp, Chairman**

**Mr. Brotherton, Mr. Hirschmann, Mr. Ogle, Mr. Street, Mr. Simmons**

The general objectives of this department are:

1. To provide professional training for:  
Teachers and administrators in the specialized areas of industrial arts education.  
Elementary teachers in the appropriate phases of industrial arts.  
Those interested in industrial training programs.  
Therapists in the manual skills areas.
2. To provide pre-engineering students with:  
Technical laboratory experiences.  
Materials and production studies.
3. To contribute to general education aims through:  
Studies of current industrial materials and practices.  
Participation in representative manipulative experiences.

### ADMISSION

Requirements for admission to the Industrial Arts Department are the same as those for admission to the University. See page 41.

### DEGREE REQUIREMENTS

- A. The general requirements for obtaining a Bachelor of Science degree with a major in Industrial Arts are the same as the general requirements for graduation from the University. See page 42.
- B. A major consists of not less than 39 semester hours, of which 15 hours must be upper division courses.
- C. Of the 132 semester hours required for the degree, not less than 45 hours must be in upper division courses.
- D. A minor must be completed in another department of the University.
- E. A grade of C or better must be earned in every course except a beginning course applied toward a major in Industrial Arts.

A minor in Industrial Arts consists of no less than 21 semester hours, of which 9 hours must be in the upper division. Students planning to major or minor in Industrial Arts with a teaching endorsement in that area should check the certification requirements as listed by the School of Education.

Requirements for a major in Industrial Arts with emphasis in specific areas of the department are as follows:

### OPTION I—DRAFTING AND DESIGN

This option is recommended for students interested in professional training in drafting and industrial design. Students electing this option will be expected to complete the art minor as listed by the Art Department. (Required art courses are listed in the curriculum below). A

second area of concentration in Marketing is recommended. Course offerings under this option will maintain a close correlation with programs in local industry through field study and guest lecturers in order that emphasis may be placed on current design problems, methods, and practices in industry.

**Freshman**

English 111 and 112.....	6
Mathematics .....	6-10
I. A. 141, 151, 152.....	9
Art 113 and 121.....	6
R O T C.....	4
Physical Education .....	2
Total .....	33-37

**Junior**

I. A. 281, 341, 351, 352.....	12
Art 323 and 324.....	6
Psychology and Sociology.....	6
Electives .....	12
Total .....	36

**Sophomore**

English 211 and 212.....	6
History 221 and 222.....	6
I. A. 251 and 252.....	6
Art 215 and 216.....	6
Science .....	6-9
R O T C.....	4
Physical Education .....	2
Total .....	36-39

**Senior**

I. A. 362 and 451.....	6
Art Electives (upper division)....	6
Psychology and Sociology.....	6
Electives .....	15-18
Total .....	33-38

**OPTION II—WOOD TECHNOLOGY**

This option is planned for students interested in the lumber industry, with emphasis on the processing and use of lumber and wood products. Recommended minors are Chemistry and Biology, with an additional area of concentration in Marketing or Management. Students electing this option will be expected to keep in close contact with local industry; films, visits, and guest lecturers will be utilized as sources of these contacts.

**Freshman**

English 111 and 112 .....	6
Mathematics .....	6-10
I.A. 141, 151, 161 .....	9
Chemistry or Biology .....	8
ROTC .....	4
Physical Education .....	2
Total .....	35-39

**Junior**

I.A. 252, 262, 343, 361, 362 and 363 .....	18
Psychology, Sociology, and Economics .....	9
Chemistry or Biology .....	9
Total .....	36

**Sophomore**

English 211 and 212.....	6
History 221 and 222.....	6
I.A. 261, 272, 341, 342 .....	12
Chemistry or Biology.....	8
R O T C.....	4
Physical Education.....	2
Total .....	38

**Senior**

I. A. 372, 441, 442, 451.....	12
Minor .....	6-8
Electives .....	9
Total .....	27-29

**OPTION III—METAL TECHNOLOGY**

This option is planned for students interested in the metal working industries, with emphasis on current technological developments and manufacturing procedures. Recommended minors are Mathematics, Chemistry, Physics, Management, or Marketing, with electives serving as an additional area of concentration in one of the recommended areas.

<b>Freshman</b>		<b>Sophomore</b>	
English 111 and 112.....	6	English 211 or 212 .....	6
Mathematics .....	6-10	History 221 and 222 .....	6
I. A. 141, 151, 171 .....	9	I.A. 161, 251, 271, and 272 .....	12
Chemistry or Physics.....	6-8	Minor .....	3-6
R O T C.....	4	ROTC .....	4
Physical Education.....	2	Physical Education .....	2
Total .....	33-39	Total .....	33-36
<b>Junior</b>		<b>Senior</b>	
I. A. 281, 341, 342, 343, 372, and 373 .....	18	I. A. 441, 442, 451.....	9
Psychology, Sociology, and Economics .....	9	Minor .....	12
Minor .....	9	Electives .....	12
Total .....	36	Total .....	33

**OPTION IV—INDUSTRIAL ARTS TEACHER PREPARATION**

This option is planned for students who are desirous of meeting state certification requirements with a view to teaching Industrial Arts or participation in therapeutical work. Special emphasis will be placed on local instructional methods and problems through visits to local schools and by interviews with state, area, and local supervisors.

Prospective teachers in the Industrial Arts Department are reminded that 24 hours of education are now required for teacher certification in Tennessee. In order to meet this requirement, it is suggested that the student take Education 101 as early in his undergraduate course as possible, preferably in his freshman year, and that the other required courses in education be spaced in his sophomore, junior, and senior years.

Such prospective teachers are also reminded that teachers in Tennessee must now complete a General Education Core, the details of which are set forth in the School of Education. The greater part of this required General Education Core will normally be taken by the Industrial Arts student in fulfilling the requirements of his degree.

**DESCRIPTION OF COURSES****141—Introduction to Industry. (3).**

Introduction to the various fields of the engineering profession, with emphasis on applied science and technological developments. Three hours lecture.

**142—Interpretation of Technical Drawing. (3).**

Study of the various types of drawings as a technique of communication in industry. Three hours lecture.

**335—Driver Education and Training. (3).**

Classroom instruction that includes traffic and safety practices, care and upkeep of the automobile, the mechanics of driving, and behind-the-wheel instruction.

**341—Materials of Industry. (3)**

Study of industrial materials. Three hours lecture.

**342—Production Equipment and Processes. (3).**

Study of current manufacturing equipment and its uses. Three hours lecture.

**343—Time and Motion Analysis. (3).**

Work simplification, including analysis of jobs and trades, as applied in time and motion. Three hours lecture.

**433—Masonry Products. (3).**

A study of cements, concrete, stone, and clay building materials. Three hours lecture. Prerequisite: Industrial Arts 341.

**434—Problems in Industrial Arts. (3).**

Study and research in a specific area. Prerequisite: senior classification, or majors and minors who can offer satisfactory evidence of being qualified to benefit by the course.

**435—Clinical Practice in Manual Arts Therapy. (6).**

Supervised clinical practice in the Physical Medicine and Rehabilitation Service at Kennedy VA Hospital. Instruction will be given in Manual Arts Therapy treatment techniques as applicable to paraplegics, quadraplegics, hemaplegics, other neuropsychiatric and pulmonary diseases.

**436—Organization of the General Shop. (3).**

A study of problems dealing with the selection and organization of general shop activities. One hour lecture, four hours laboratory. Prerequisite: Education 391-H.

**437—Industrial Safety. (3).**

A study of industrial hazards and safety procedures. Three hours lecture.

**438—Foremanship. (3).**

A study of the functions of supervisory personnel. Three hours lecture.

**441—Production Control. (3).**

Study of the elements of production and their coordination emphasized by visits to industrial plants. Three hours lecture.

**442—Production Methods. (3).**

Practice in wood and/or metal production procedures. One hour lecture, four hours laboratory.

### **DRAFTING**

**151—Engineering Drawing. (3).**

Basic drafting practices progressing through the use of instruments, theory of projections, and working drawings. One hour lecture, four hours laboratory.

**152—Engineering Drawing. (3).**

Continuation of I. A. 151, with emphasis on machine drawing. One hour lecture, four hours laboratory. Prerequisite: I. A. 151.

**251—Descriptive Geometry. (3).**

Representation and space relations of points, lines, and plane intersections and development. One hour lecture; four hours laboratory. Prerequisite: I. A. 152.

**252—Industrial Design. (3).**

Theory and application of design and principles in industry. Three hours lecture. Prerequisite: I. A. 151.

**351—Architectural Drawing. (3).**

Planning and executing residential preliminary and working drawings, details, and specifications. One hour lecture, four hours laboratory. Prerequisite: I. A. 151.

**352—Architectural Drawing. (3).**

Continuation of I. A. 351, including pictorial representations, model building, and furnishings design. One hour lecture, four hours laboratory. Prerequisite: I. A. 351.

**451—Plant Layout. (3).**

Study of industrial and educational plants, with emphasis on floor plans and placement of facilities. Three hours lecture. Prerequisite: I. A. 151, and major or minor in Industrial Arts.

### **WOODWORK**

**161—Woodwork. (3).**

Basic hand and machine woodworking processes. One hour lecture, four hours laboratory.

**261—Finishing Methods. (3).**

Studies and practices of brush, spray, and dip procedures. One hour lecture, four hours laboratory.

**361—Machine Woodwork. (3).**

Woodworking machines with emphasis on special operations. One hour lecture, four hours laboratory. Prerequisite: I. A. 162.

**362—Upholstery. (3).**

Fundamentals of pad and spring upholstery. One hour lecture, four hours laboratory. Prerequisite: I. A. 161 or I. A. 162.

**363—Wood Products. (3).**

Study and testing of wood and lumber products. Three hours lecture. Prerequisite: I. A. 341.

### **METALWORK**

**171—Metalwork. (3).**

Basic hand and machine metalworking processes. One hour lecture, four hours laboratory.

**271—Welding. (3).**

Techniques of gas and electric arc welding. One hour lecture, four hours laboratory.

**272—Patternmaking and Foundry. (3).**

Studies and practices in the casting of non-ferrous metals and plastics. One hour lecture, four hours laboratory. Prerequisite: Industrial Arts 161 and 171.

**372—Maintenance of Tools and Equipment. (3).**

Practices in selection and care of tools, both hand and machine. One hour lecture, four hours laboratory. Prerequisite: Industrial Arts major or minor.

**373—Metal Products (3).**

Study and testing of metals and metal products. Three hours lecture. Prerequisite: I. A. 341.

### **ELECTRICITY**

**281—Electricity. (3).**

Fundamental principles and practices of electrical circuits. One hour lecture, four hours laboratory.

**282—Electronics. (3).**

A study of theories and practices of electronics, as applied in the areas of communication, industry, and entertainment. One hour lecture, four hours laboratory. Prerequisite: Industrial Arts 281.

**381—Radio. (3).**

Components, circuits, and theory of the radio receiver. One hour lecture, four hours laboratory. Prerequisite: Industrial Arts 282.

**382—Television. (3).**

Circuits of the television receiver. One hour lecture, four hours laboratory. Prerequisite: Industrial Arts 381.

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**Note:** Exceptions to prerequisites may be made by the instructor, with these exceptions being in writing.

# THE SCHOOL OF ARTS AND SCIENCES

The School of Arts and Sciences is the basic unit of the university in the sense that the other schools of the university, both professional and graduate, require some work in the School of Arts and Sciences. Here also students who plan to do work in professional schools elsewhere may take the pre-professional work in medicine, dentistry, pharmacy, law, engineering, and laboratory technique that is required for entrance in such schools. Graduates in the School of Arts and Sciences who plan to teach either on the elementary or secondary level in the public schools receive excellent training for this profession by taking the required education courses for certification in the School of Education at the same time that they are completing requirements in their own school.

The major objective of the School of Arts and Sciences, however, is to give to its students a well-rounded and liberal education. It attempts to do this by introducing its students to nearly all of those major fields of human interest which are included in the humanities, social sciences, and natural sciences. It endeavors to make them fully acquainted with one or more of the subjects included in these several divisions and to stimulate within them the desire to continue their pursuit of truth. It is the earnest belief of the School of Arts and Sciences that the most essential and best possible preparation for any profession or vocation is a thorough foundation in the liberal arts, a belief which is shared more and more by professional and business leaders throughout our nation. In addition it seeks to give the student a richness of background which will increase his capacity to enjoy and appreciate the worthwhile things of life, and will make him a real citizen of the world in which he is to live and play his part.

The School of Arts and Sciences offers four degrees: Bachelor of Arts, Bachelor of Science, Bachelor of Fine Arts, and Bachelor of Music. The Bachelor of Fine Arts and Bachelor of Music are professional degrees, the requirements for which are set forth in the Department of Art and the Department of Music, respectively. The Bachelor of Science and Bachelor of Arts are academic degrees, the requirements for which are given below.

The work of the school leading to the Bachelor of Arts and Bachelor of Science degrees is organized into two divisions: (1) **The Lower Division**, consisting of the work of the freshman and sophomore years, and (2) **The Upper Division**, consisting of the work of the junior and senior years.

In order to be admitted to the Upper Division, the student must have completed the work of the Lower Division with an average grade of C (2.0). In addition, he must have submitted to his adviser for approval a complete program of study for work in the Upper Division. Students who complete the work of the Lower Division with less than a C average will be given one additional semester in which to reach this standard. If at the end of this additional semester the student's average is below a C, he will be advised to withdraw from the university.

Students who have completed the required number of hours and the required residence to be classified as juniors, but who have not completed their basic requirements in the Lower Division, must sched-

ule these uncompleted requirements the first semester following that such courses are available.

In the Lower Division are concentrated most of the courses required of all candidates for the B.A. and B.S. degrees. These required courses are designed to supplement the training received in high school and to prepare the student for the specialization required in the Upper Division.

### LOWER DIVISION

#### Entrance Requirements and Prescribed Courses For Bachelor of Arts Degree

The entrance requirements for the Lower Division are graduation from an approved high school with 15 high school units, divided as follows: English, at least 3 units; mathematics, at least 2 units; foreign language, at least 2 units in one language<sup>1</sup>; the remainder to be chosen from other high school units, with not more than 3 from vocational subjects.

The prescribed courses in the Lower Division for the Bachelor of Arts degree are as follows:

English (111, 112; 211, 212).....	12 hours
<sup>1</sup> Foreign Language (6-18 hours).....	12 hours
History (221, 222).....	6 hours
Social Science .....	6 hours
Biology (141, 142).....	8 hours
Chemistry, Geography (111, 112), Mathematics, or Physics (one year of any one).....	6-8 hours
Electives .....	12 hours
Physical Education .....	4 hours
<b>Total</b>	<b>66-68 hours</b>

#### Entrance Requirements and Prescribed Courses For Bachelor of Science Degree

The entrance requirements for the Lower Division are graduation from an approved high school with 15 units divided as follows: 3 units of English, 2 units of mathematics, the remainder to be chosen from other high school units with not more than 4 from vocational subjects. If the student offers only 1 unit in mathematics, he will be admitted to the Lower Division, but will be required to take one semester of college mathematics (101 or 121).

<sup>1</sup> The details of the foreign language requirement are as follows:

(1.) Students with less than 2 units of a foreign language in high school will be required to complete three years work (18 semester hours) in one language in college for a B.A. degree.

(2.) Students with 2 or 3 units of one foreign language in high school may satisfy the foreign language requirement for a B.A. degree by completing two years work (12 semester hours) in the same language in college, starting at the intermediate level. They may, however, choose a different language and complete three years work (18 semester hours) in one language in college for a B.A. degree.

(3.) Students with 4 units of one foreign language in high school may satisfy the foreign language requirement for a B.A. degree by completing one year of work (6 semester hours) in the same language in college, starting at the advanced level.

(4.) Students who have 2 or more units in high school in one language may not take the first year of that language in college for credit.

The prescribed courses in the Lower Division for the Bachelor of Science degree are as follows:

English (111, 112; 211, 212).....	12 hours
Foreign Language .....	6 hours
History (221, 222) .....	6 hours
Science (one year of Biology, Chemistry, Geography 111, 112, Mathematics or Physics).....	6-8 hours
Electives .....	32 hours
Physical Education .....	4 hours
<b>Total</b>	<b>66-68 hours</b>

### UPPER DIVISION

In the Upper Division, the work of the School of Arts and Sciences for both the Bachelor of Arts and the Bachelor of Science degrees is divided into three concentration groups as follows:

a. Humanities (Art, English, French, German, History, Journalism, Latin, Mathematics, Music, Philosophy, Psychology, Spanish, Speech and Drama).

b. Social Sciences (Economics, Geography, History, Philosophy, Psychology, Political Science, Sociology).

c. Natural Sciences (Biology, Chemistry, Geography, Mathematics, Physics).

### MAJOR AND MINOR

For the Bachelor of Arts degree, the student must complete a major and a minor within one of these concentration groups. The major must be in one subject, and in this subject the student will be required to complete at least 24 hours of course work. At least 12 of these hours must be in courses above 299 (Upper Division courses). A minimum grade of C (2.0) is required of every course for the major except in beginning courses and in sophomore English.

Within his concentration group the Bachelor of Arts candidate must also complete a minor of at least 18 hours in a subject other than his major. At least 6 hours must be from courses above 299 (Upper Division courses).

For the Bachelor of Science degree, the requirement for the major is the same as that for the Bachelor of Arts. The Bachelor of Science candidate may, however, choose as a minor any subject in the three undergraduate schools of the university which offers a minor. This minor must be composed of at least 18 hours in a subject other than his major.

The remaining courses for both the Bachelor of Arts and the Bachelor of Science degrees may be elected from any in the institution for which the student is qualified to register, provided that these elected courses meet with the approval of his advisor and provided

<sup>1</sup>All students working for the B.S. degree must have one year of a foreign language on the college level. Students who have less than two units of a foreign language in high school will satisfy this requirement with first-year courses; students with two or more high school units in one language may satisfy this requirement with second-year courses in the same language or first-year courses in a different language. Students with two high school units in one language may not take the first-year courses in the same language in college for credit.

that not more than 18 hours<sup>1</sup>, except where a minor is involved, are taken from any one department outside the three concentration groups listed above.

Students of the School of Arts and Sciences who expect to teach must elect such courses in education as will qualify them for teaching positions they expect to hold.

Transfer students are required to earn at least 6 hours in residence at Memphis State University in their major subject and at least 3 hours in their minor subject.

### **General Requirements**

At least 45 hours of the student's work in the Upper Division must be above 299. Not more than 42 hours will be accepted in any one subject.<sup>2</sup> For graduation a total of 132 hours is required, of which at least 90 hours must be in the concentration groups listed above.

### **PROSPECTIVE TEACHERS**

Prospective teachers in the School of Arts and Sciences who entered the university in September, 1953, or thereafter, are reminded that 24 hours of education is now required for teacher certification in Tennessee on both the elementary and secondary levels. In order to meet this requirement, it is suggested that the student take Education 101 as early in his undergraduate course as possible, preferably in his freshman year, and that the other required courses in education be spaced in his sophomore, junior and senior years.

Such prospective teachers are also reminded that teachers in Tennessee must now complete a General Education Core, the details of which are set forth in the school of Education, page 157. The greater part of this required General Education Core will normally be taken by the Arts and Sciences student in fulfilling the requirements of his school, but one required course, Health 101, and several elective courses are outside of the School of Arts and Sciences.

### **DEPARTMENTAL MAJOR AND MINOR REQUIREMENTS**

In addition to the general requirements for the major and minor set forth above, there are supplementary departmental requirements for a major and minor. These departmental requirements follow:

#### **ART**

Students who desire to major in art are required to complete a total of 36 semester hours in this field. Eighteen semester hours of this work will be in certain prescribed courses known as the art core, and twelve semester hours will be in specialized courses in a chosen field of concentration. The remaining six semester hours will be for art electives.

Students who minor in art are required to complete 24 semester hours of art courses of which at least 9 hours must be in the upper division.

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<sup>1</sup>The 4 required hours in physical education are not included in these 18 hours.

<sup>2</sup>Chemistry majors who are candidates for the B.S. degree are allowed to take enough additional hours over their major requirement to attain the minimum standards set by the American Chemical Society for chemistry majors.

**BIOLOGY**

Majors in biology are required to complete not less than 30 hours in prescribed courses in biology and one year of chemistry. At least 12 of the 30 hours work constituting a major must be in upper division courses. A minor in a physical science is recommended but may be taken in any other field.

The major in biology may choose between two areas of concentration, botany or zoology, for the greater portion of his work. The major who chooses botany as his field of concentration will take Biology 141, 142, 300, 302, 304, 305, and 352. Those who choose zoology will take Biology 141, 142, 300, 331 and 332. In either field of concentration the student, with the consent of his advisor, may choose electives to complete the number of hours required for a major.

To complete a minor in the department the student is required to take 18 hours in biology including 141 and 142. Nine hours in electives, at least 7 of which must be upper division courses, may be chosen from other offerings in the department.

**CHEMISTRY**

Students majoring in Chemistry must select 40 semester hours of credit from the chemistry courses listed in this catalogue, with at least 24 semester hours of upper division level courses.

Chemistry 111-12 and chemistry 221-22 are prerequisites to a major in chemistry which includes chemistry 321-22, chemistry 411-12, chemistry 421-22 and chemistry 491; mathematics through math. 312, German 111-12, German 211-22 and Physics 251-52. (Physics 211-12 may be substituted for physics 251-52 upon approval of the chairman of the department.)

The courses required for a major in Chemistry are:

1st year—Chemistry 111, 112. Mathematics 121 or 141 is prerequisite or corequisite for Chem. 111.

2nd year—Chemistry 221, 222, which is a prerequisite to all advanced courses except Chemistry 321, 322; Math. 142 or 311, 312; Physics 51, 252.

3rd year—Chemistry 321, 322; or Chemistry 411, 412; or Chemistry 421, 422; Mathematics 311, 312 are prerequisites or corequisites if Physical Chemistry (411, 412) is elected.

4th year—Chemistry 411, 412; or Chemistry 421, 422, and Chemistry 491. Chemistry 411, 412 is a prerequisite to graduate study in chemistry. Other chemistry courses listed in this catalogue may be used as electives.

A minor in chemistry may be secured by completing 20 semester hours as follows:

Chemistry 111, 112.....8 hours

Chemistry 321, 322.....8 hours

An additional 4 hours from courses above the 299 level must be taken.

**PHYSICAL SCIENCES**

A student may major in physical science by acquiring 32 semester hours in chemistry and physics. Chemistry 111, 112 and Physics 211, 212 or Physics 251, 252 are required of physical science majors. At least 12 additional hours must be in courses numbered above 299.

A student majoring in another field may attain a minor in physical science by completing 20 semester hours of courses in the physical sciences; this must include 8 semester hours selected from courses numbered above 299.

It is suggested that those who plan to teach the sciences in secondary schools major in the Physical Sciences. Students who plan to become high school science teachers should study carefully the state's certification law for science teachers.

**ENGLISH**

All candidates for graduation at Memphis State University are required to complete English 111, 112, 211, 212, or their equivalent. These courses should be taken consecutively through the freshman and sophomore years. No credit will be allowed on any course until all the preceding courses are completed. These courses cannot be dropped from the student's course load, except under very special conditions.

In addition to this requirement of 12 semester hours, students majoring in English must complete courses in the department as follows:

English 301, 302, 470.....not less than 3 hrs.

English 340, 341, 342, 350, 351, 352.....not less than 3 hrs.

English 420, 421, 422, 423, 424.....not less than 3 hrs.

English 432, 433 .....not less than 3 hrs.

Elective courses in English amounting to not less than 6 hours must be completed.

A minor in English includes English 111, 112, 211, 212 and 12 additional hours in English, at least 6 of which must be selected from the upper division courses required of an English major. These courses should be selected from two groups listed above as major requirements.

Transfer students either majoring or minoring in English must take at least 6 hours of work in English at Memphis State University.

**FRENCH**

Students who major in French are required to take 12 hours of work in courses numbered above 299.

Students who minor in French are required to take 6 hours of work in courses numbered above 299.

Tests may be given to determine whether or not a student who has had two years of French in high school should take French 211.

**GERMAN**

Students who major in German are required to take 12 hours of work in courses numbered above 299.

Students who minor in German are required to take 6 hours of work in courses numbered above 299.

**HISTORY**

The requirements for a major in history are as follows:

1st year: History 111-2, and Geography 121-2.

2nd year: History 221-2, and Economics 211-2, or Political Science 221-2, or Sociology 211-2.

3rd year: Six hours in 300 or 400 courses.

4th year: Six hours in 300 or 400 courses.

Hours required in history, 24; additional hours required, 12.

History 221-2 must be completed for graduation. These courses are also prerequisites for all 300 and 400 courses in history.

A minor in history includes 12 hours in the lower division and 6 hours in the upper division.

History 221 and History 222 are not open to students with less than 25 semester hours of credit.

## **JOURNALISM**

Two majors are offered in the Department of Journalism: one in the news-editorial curriculum for the student who wishes to prepare himself for work as a reporter, copyreader, special writer, or departmental executive in specific areas of mass communication; and one in the advertising curriculum for the student who plans to enter any phase of professional work in creative advertising. For details, see page 90.

A minor in journalism will include a minimum of 18 semester hours, including Journalism 111, 112 and 211. Other courses will be selected in accordance with the student's plans to use journalism. All minors must include at least six hours of upper-division journalism courses.

All students planning to take a major or a minor in the Department of Journalism should enroll during their freshman year in Journalism.

## **LATIN**

Students who major in Latin are required to take 12 hours of work in courses numbered above 299.

Students who minor in Latin are required to take 6 hours of work in courses numbered above 299.

## **MATHEMATICS**

A major in mathematics requires at least 8 hours of either chemistry or physics, one year of calculus (Math. 311-2) and its prerequisites (Math. 141-2), and at least 12 hours in mathematics courses numbered above 312. Students majoring in mathematics who wish to obtain teaching certificate must comply with all general and professional requirements listed under the School of Education.

A minor in mathematics consists of not less than 18 semester hours, including at least 6 hours numbered above 299.

## **MUSIC**

Course work is summarized below for the majors in music under three degree plans:

	Bachelor of Arts		Bachelor of Science		Bachelor of Music
1. Applied Music					
Music Core .....	38	Music Core.....	50		
Concentration Area .....	4	Major .....	20-31		
		Minor (Minimum).....	6		
Totals .....	42		76-92		
2. Music Theory and Composition					
Music Core .....	38	Music Core.....	50		
Concentration Area .....	8	Major .....	25		
		Minor (Minimum).....	6		
Totals .....	46		81-92		

## 3. Music History and Literature

Music Core .....	38
Concentration Area .....	9
Totals .....	47

Music Core .....	50
Major .....	38
Minor .....	6
	92

## 4. Church Music

Music Core .....	38
Concentration Area .....	9
Totals .....	47

Music Core .....	50
Major .....	24
Minor (Minimum) .....	6
	80-92

## 5. Music Education

(See Dept. of Music Education  
in School of Education section  
of this catalog.)

Music Core .....	50
Major .....	13-19
Minor (Professional Education) .....	24
General Education .....	15

Total ..... 102-108

The Bachelor of Arts or Bachelor of Science minor in music includes a core of twenty-one hours of music courses plus additional hours, as specified below, in any one of three fields of concentration:

1. Concentration in Applied Music.....4
2. Concentration in Music History and Literature.....6
3. Concentration in Church Music.....9

**PHYSICS**

Students majoring in Physics must select 32 semester hours of credit from the physics courses listed in this catalogue. Of this, a minimum of 24 semester hours of physics must consist of courses numbered 300 or above. Physics 211, 212 or physics 251, 252 is a prerequisite of all courses numbered above 300.

The courses required for a major in physics are:

Physics 251, 252 (Physics 211, 212 is acceptable but not recommended for majors.).....10 hours

At least 24 hours of physics from the following courses:

Physics 311, 312.....	8 hours
Physics 321, 322.....	8 hours
Physics 411, 412.....	8 hours
Physics 421, 422.....	8 hours

In addition to these requirements in Physics, the following courses are also required:

Chemistry 111, 112

Mathematics 311, 312

Six additional semester hours of mathematics in courses numbered above 312. Differential equations is highly recommended.

A minor in Physics may be secured by completing a minimum of twenty semester hours as follows:

Physics 251, 252 (Physics 211, 212 is acceptable but not recommended for minors.)

An additional 10 or 12 semester hours in physics from courses numbered 300 or above, exclusive of Physics 401, 402.

**PSYCHOLOGY**

Required for the major: 24 hours in Psychology, including 12 hours in the Upper Division. Required courses for the major include Psychology 111, 112, 215, and 315.

Required for the minor: 18 hours in psychology, including 6 hours in the Upper Division.

**SOCIAL SCIENCES**

A major in economics is 24 hours, and a minor is 18 hours. The major consists of 211-2, 421-2, and 12 additional hours in the upper division. The minor consists of 211-2, 421 or 422, and 9 additional hours in the upper division. For either major or minor, the student also must complete Geography 121-2. **Prerequisites:** Economics 211 is prerequisite to 212, and 212 is prerequisite normally to all 300 and 400 courses. Any exception must be cleared by permission from the chairman of the department.

A major in geography is 24 hours, 12 of which must be in the upper division. It includes 121-2, 231-2 or 235-6, and 331-2. A student majoring in geography must complete also as a part of his minor or as an elective, 6 hours in economics, 6 hours in history, and 6 hours in sociology.

A minor in geography is 18 hours. For all students, other than those majoring in the physical sciences, it includes the first three years of work required for a major in geography. Students majoring in the physical sciences should take 411-2 instead of 331-2.

A major in political science is 24 hours, and a minor is 18 hours. The major consists of 211-2 and 18 additional hours in the upper division. The minor consists of 211-2 and 12 additional hours in the upper division. For either major or minor, the student also must complete Geography 121-2 or 235-6.

A major in sociology is 24 hours, and a minor is 18 hours. The major includes 211-2, 311, 322 or 412, and 422. The minor includes 211-2. For either major or minor, the student also must complete Geography 121-2. Sociology 211 is a prerequisite for 212, and 211-2 are prerequisites for 311, 321, and 322. For 312, 411, 412, 421, 422, 441, and 442 a prerequisite is 6 hours of sociology or permission of the chairman of the department.

**SPANISH**

Students who major in Spanish are required to take 12 hours of work in courses numbered above 299. The upper division courses will be chosen in consultation with the student's major advisor.

Students who minor in Spanish are required to take 6 hours of work in courses numbered above 299.

**SPEECH AND DRAMA**

A major in speech and drama consists of at least 27 hours of course work, including the following courses: 111, 121, 231, 245, one course of the following (251, 252, 253), 300 (two semesters at 1 semester hour each), plus at least 10 additional semester hours of courses numbered above 299.

A minor in speech and drama consists of at least 18 hours of course work, including the following courses: 111, 121, 245, 300 (one semester), plus one of the following courses (231, 251, 252, 253) plus at least five semester hours of course work numbered above 299.

Students majoring in speech and drama must participate in the dramatic and forensic activities of the department.

## DEPARTMENT OF ART

Mr. Johnson, Chairman

Mr. Allgood, Mr. Gelinas, Mr. Govan, Mrs. Ross, Mr. Nave, Mr. Parker

The curriculum in art is designed to give the student basic knowledge in the theory and practice of fine and applied art so that he may develop his ability to do creative work in this field. The materials of the various art subjects have been organized in such a way that creativeness and development of skills are emphasized in the design, drawing and painting courses, while courses in art history and appreciation are given as background.

## B.F.A. IN ART

The entrance requirements for the Bachelor of Fine Arts degree are the same as the entrance requirements for the Bachelor of Science degree. See page 59.

To receive a Bachelor of Fine Arts degree in Art from Memphis State University, a student must have at least 132 semester hours credit (52 in general subjects, 80 in art) and at least 264 quality points. He must further make a minimum grade of C in all upper division art courses. Below are stated the prescribed programs leading to a B.F.A. in Art.

## General Requirements

English (111, 112, 211, 212).....	12
Foreign Language .....	6
History (221, 222) .....	6
Science (one year of Biology, Chemistry, Geography 111, 112, Mathematics or Physics) .....	6-8
Electives (must be Liberal Arts courses).....	16-18
Physical Education .....	4
Total.....	52

## Art Core (B.F.A.)

1. Drawing .....	12
(Art 115, 116, 213, 214) .....	
2. Design .....	12
(Art 113, 121, 215, 216) .....	
3. Art History .....	12
(Art 337, 338, 411, 412) .....	
Total.....	36

## Fields of Concentration (Choose one)

I. Drawing and Painting	
A. Core Subjects .....	36
B. Specialty Courses .....	36
331, 332—Watercolor Painting	
333, 334—Oil Painting	
335, 336—Graphic Techniques	
421, 422—Illustration	
431, 432—Casein Painting	
433, 434—Advanced Oil Painting	
C. Art Electives .....	8
Total.....	80

<b>II. Commercial Art</b>	
A. Core Subjects .....	36
B. Specialty Courses .....	36
315, 316—Advertising Design	
323, 324—Package Design	
335, 336—Graphic Techniques	
419, 420—Display	
421, 422—Illustration	
423, 424—Advanced Advertising Design	
C. Art Electives .....	8
Total.....80	
<b>III. Art Crafts</b>	
A. Core Subjects .....	36
B. Specialty Courses .....	36
319, 320—Textile Design	
327, 328—Jewelry Design	
339, 340—Ceramics	
361, 362—Arts and Crafts	
417, 418—Weaving	
435, 436—Advanced Ceramics	
C. Art Electives .....	8
Total.....80	
<b>IV. Interior Design</b>	
A. Core Subjects .....	36
B. Specialty Courses .....	36
317, 318—Interior Design	
319—Textile Design	
329, 330—Furniture and Accessories	
339—Ceramics	
419, 420—Display	
425, 426—Interior Rendering	
429, 430—Advanced Interior Design	
C. Art Electives .....	8
Total.....80	

### Art Major

Students who desire to obtain the Bachelor of Arts or Bachelor of Science degree with a major in art are required to complete a total of 36 semester hours in the field. Eighteen semester hours of this work will be in certain prescribed courses known as the art core; while twelve will be in specialized courses in a chosen field of concentration. The remaining six semester hours will be for art electives. The required courses that make up the art major are listed below:

### Art Core (Major)

111—Art Appreciation* .....	3
113—Basic Lettering .....	3
115—Beginning Drawing .....	3
121—Color Fundamentals .....	3
213—Figure Structure .....	3
215—Creative Design .....	3
Total.....18	

\*Any one of the following Art History courses may be substituted for Art Appreciation: 313, 337, 338, 409, 411, 412.

**Fields of Concentration (Choose one)**

<b>I. Drawing and Painting</b>	
A. Core Subjects .....	18
B. Specialty Courses .....	12
331—Watercolor Painting	
333, 334—Oil Painting	
413—Casein Painting	
C. Art Electives .....	6
Total .....	36
<b>II. Commercial Art</b>	
A. Core Subjects .....	18
B. Specialty Courses .....	12
315—Advertising Design	
323—Package Design	
419—Display	
421—Illustration	
C. Art Electives .....	6
Total .....	36
<b>III. Art Crafts</b>	
A. Core Subjects .....	18
B. Specialty Courses .....	12
319—Textile Design	
327—Jewelry Design	
339—Ceramics	
361—Arts and Crafts	
C. Art Electives .....	6
Total .....	36
<b>IV. Interior Design</b>	
A. Core Subjects .....	18
B. Specialty Courses .....	12
317—Interior Design	
329—Furniture and Accessories	
425, 426—Interior Rendering	
C. Art Electives .....	6
Total .....	36

**Art Minor**

A student who wishes to obtain a Bachelor of Art or Bachelor of Science degree with a minor in art may select any one of the following seven fields of concentration: drawing and painting, commercial art, art crafts, interior design, industrial design, art history or art education. A minor in art consists of 24 semester hours of art courses of which at least 9 hours shall be in the upper division. The required courses for each of the art minors are as follows:

<b>I. Drawing and Painting</b>	
Art 115, 121, 213, 331, 333, 431 .....	18
Art Electives .....	6
Total .....	24

<b>II. Commercial Art</b>	
Art 113, 121, 215, 315, 323, 419 .....	18
Art Electives .....	6
<b>Total</b> .....	<b>24</b>
<b>III. Art Crafts</b>	
Art 121, 215, 216, 327, 339, 361 .....	13
Art Electives .....	6
<b>Total</b> .....	<b>24</b>
<b>IV. Interior Design</b>	
Art 115, 121, 317, 318, 329, 425 .....	18
Art Electives .....	6
<b>Total</b> .....	<b>24</b>
<b>V. Industrial Design*</b>	
Art 113, 121, 215, 216, 323, 324 .....	18
Art Electives .....	6
<b>Total</b> .....	<b>24</b>
<b>VI. Art History</b>	
Art 313, 337, 338, 409, 411, 412 .....	18
Art Electives .....	6
<b>Total</b> .....	<b>24</b>
<b>VII. Art Education</b>	
Art 111, 115, 121, 213, 215, 301, 313, 361 .....	24
Education 391A or 391W .....	1
<b>Total</b> .....	<b>25</b>

### DESCRIPTION OF COURSES

Art 111—Art Appreciation. (3).

An introductory course that embraces all fine arts subjects. It deals with the fundamental principles of art and an understanding of art products and processes. Its purpose is to provide a basis for judgment and enjoyment of all types of art expression. Three hours lecture.

113—Basic Lettering. (3).

A course in fundamental letter construction, the history of alphabets, and the effects of tools and materials upon individual letter forms. Practical problems in hand lettering in both pen and brush techniques. Two hours lecture; two hours laboratory.

115, 116—Beginning Drawing. (3 credits each semester).

A beginning course in free-hand drawing designed to widen the visual scope of the student and strengthen his technical skill. Work in various drawing media. Two hours lecture; two hours laboratory.

121—Color Fundamentals. (3).

A modern approach to the study of color. Provides basic and creative experiences in the use and enjoyment of color. Various color theories are examined. Two hours lecture; two hours laboratory.

213, 214—Figure Structure. (3 credits each semester).

Analysis of the structure of the human form. Figure drawing to develop powers of observation. Such media as charcoal, crayon, pencil, and wash are explored. Two hours lecture; two hours laboratory.

\* Available only to Drafting and Design majors in the Department of Industrial Arts.

**215, 216—Creative Design. (3 credits each semester).**

An introduction to design as a basic factor in creative expression. Various design principles are studied. Also experimentation in such techniques as the collage, montage, monotype and photogram. Two hours lecture; two hours laboratory.

**301, 302—Art Education. (3 credits each semester).**

An introductory course in the development of skills and methods used in the school art program. Materials, techniques and ideas important to children's art expression and growth. Two hours lecture; two hours laboratory.

**313—Art in America. (3).**

A survey course dealing with the development of art in America. It includes architecture, sculpture, painting and the minor arts from Pre-Columbian time to the present. Three hours lecture.

**315, 316—Advertising Design. (3 credits each semester).**

An introductory course in the methods and techniques of advertising layout. Practical problems involving rough, presentation and finished art work in connection with newspaper, magazine and direct-mail advertising. Two hours lecture; two hours laboratory.

**317, 318—Interior Design. (3 credits each semester).**

A survey of the broad field of interior design and some of its underlying principles. Projects include experience in the use of furniture, color, and fabrics in interior organization and the designing of small residential and commercial interiors. Two hours lecture; two hours laboratory.

**319, 320—Textile Design. (3 credits each semester).**

An introduction to the field of fabric designing. Projects include fundamental and creative problems in color, pattern and texture. Two hours lecture; two hours laboratory.

**323, 324—Package Design. (3 credits each semester).**

A course in the designing of packages and other types of industrial containers. Projects consist of the preparation of trademark designs, dummy cartons and package renderings. Two hours lecture; two hours laboratory.

**327, 328—Jewelry Design. (3 credits each semester).**

An elementary course in jewelry-making with emphasis on design. The preparation of metals and enamels, pickling and firing, and the techniques of champlevé and cloisonné are explored. Two hours lecture; two hours laboratory.

**329-330—Furniture and Accessories. (3 credits each semester).**

The history of furniture design and construction from ancient to modern times. The use of glass, textiles, ceramics, and other decorative accessories in interior design. Two hours lecture; two hours laboratory.

**331, 332—Watercolor Painting. (3 credits each semester).**

Theory and practice in painting to develop the student's skill in handling the medium of transparent watercolor. One hour lecture; four hours laboratory.

**333, 334—Oil Painting. (3 credits each semester).**

A preliminary course designed to give those who have special interest and some ability in art an opportunity to study the different techniques of painting with oils. It covers the basic essentials in still-life, landscape, and portrait painting. One hour lecture; four hours laboratory.

**335, 336—Graphic Techniques. (3 credits each semester).**

An introduction to the field of graphic arts. An examination of the potentialities of such basic graphic techniques as block-printing, engraving, etching, lithography and serigraphy. Two hours lecture; two hours laboratory.

**337—Ancient Art. (3).**

A study of architecture, sculpture, painting and the minor arts from pre-historic times to the fall of the Roman Empire. Includes Egyptian, Mesopotamian, Greek and Roman art. Three hours lecture.

**338—Medieval Art. (3).**

The development of the visual arts during the medieval period; their use by man as a social, cultural and educational force. Course specifically covers Early Christian, Romanesque and Gothic Art. Three hours lecture.

**339, 340—Ceramics. (3 credits each semester).**

An introductory course in pottery-making with emphasis on design. Hand forming and production processes using clays, plaster and cements are surveyed. Two hours lecture; two hours laboratory.

**361, 362—Arts and Crafts. (3 credits each semester).**

Introductory arts and crafts experiences as they relate to hobby and recreational areas. Work includes leather and metal crafts, basketry, ceramics and other craft areas. Two hours lecture; two hours laboratory.

**409—Oriental Art. (3).**

A general survey of Oriental art from earliest times to the present. Course especially deals with Persian, Indian, Chinese and Japanese art. Three hours lecture.

**411—Renaissance Art. (3).**

Primarily a study of Western art and architecture from the medieval period through the Renaissance and post-Renaissance periods. Three hours lecture.

**412—Modern Art. (3).**

A survey of nineteenth and twentieth century art. Deals with all important movements of modern art from Neo-Classicism to the Present. Three hours lecture.

417, 418—Weaving. (3 credits each semester).

A course in the fundamentals of fabric construction. Theory and practice in all basic weaves. Experimentation with color and textures. Two hours lecture; two hours laboratory.

419, 420—Display. (3 credits each semester).

Specialized training in the field of display. A creative approach to exhibition and point-of-sales displays. Two hours lecture; two hours laboratory.

421, 422—Illustration. (3 credits each semester).

A survey of the many areas requiring the services of an illustrator. Preparation of book, magazine, advertising and television illustrations. Two hours lecture; two hours laboratory.

423, 424—Advanced Advertising Design. (3 credits each semester).

Deals with advanced problems in the fields of advertising and merchandising design. Each student is required to plan and coordinate all phases of an advertising campaign. Two hours lecture; two hours laboratory. Prerequisite: Art 315, 316 or permission of the instructor.

425-426—Interior Rendering. (3 credits each semester.)

Professional techniques in the drawing and rendering of interiors and the construction of small scale models in various materials from student's original designs. Two hours lecture; two hours laboratory.

429-430—Advanced Interior Design. (3 credits each semester.)

Advanced study in interior design. Problems in designing complete interiors for homes and commercial structures. Two hours lecture; two hours laboratory. Prerequisite: Art 317-318 or permission of the instructor.

431, 432—Casein Painting. (3 credits each semester).

Theory and practice in painting to develop the student's ability to handle opaque watercolor media such as casein and gouache. One hour lecture; four hours laboratory.

433, 434—Advanced Oil Painting. (3 credits each semester).

This course deals with advanced problems in oil painting. It presupposes that the student has mastered basic techniques and is ready for a more experimental approach to the subject. One hour lecture; four hours laboratory. Prerequisite: Art 333, 334 or permission of the instructor.

435, 436—Advanced Ceramics. (3 credits each semester).

Advanced theory and practice in the area of ceramics. Special emphasis on form, glaze quality and decorative techniques. Two hours lecture; two hours laboratory. Prerequisite: Art 339, 340 or permission of the instructor.

## DEPARTMENT OF BIOLOGY

**Mr. Rudolph, Chairman**

**Mr. Carl Dee Brown, Mr. Folden, Mr. Feisal, Mr. Knepton,**

**Mr. McGowan, Mr. Parchman, Mr. Powell, Mr. Simonton,**

**Mr. Simpson, Mr. Wilder.**

Courses in the department are designed to increase the student's appreciation of his environment and to contribute to his cultural background. For those who plan to teach or do graduate work in biology, a broad foundation is offered. The student may choose courses which satisfy entrance requirements to various professional schools such as medicine, dentistry, pharmacy, medical technology, and nursing.

Majors in biology are required to complete not less than 30 hours in prescribed courses in biology and one year of chemistry. At least 12 of the 30 hours work constituting a major must be in upper division courses. A minor in physical sciences is recommended but may be taken in any other field.

The major in biology may choose between two areas of concentration, botany or zoology, for the greater portion of his work. The major who chooses botany as his field of concentration will take Biology 141, 142, 300, 302, 304, 305, and 352. Those who choose zoology will take Biology 141, 142, 300, 331 and 332. In either field of concentration the student, with the consent of his advisor, may choose electives to complete the number of hours required for a major.

To complete a minor in the department the student is required to take 18 hours in biology including 141 and 142. Nine hours in electives, at least 7 of which must be upper division courses, may be chosen from other offerings in the department.

Premedical and predental students may meet biology requirements by taking Biology 141 and 142. It is recommended that they also take Biology 331 and 332. Preprofessional students in other fields will be advised as to which courses are required.

Biology 141 and 142 are required of students who expect to receive the B.A. degree. Other non-science students may complete biology requirements for graduation by taking 111 and 112. Biology 111 and 112 are designed specifically for non-science students and must not be taken by biology majors or pre-professional students.

## DESCRIPTION OF COURSES

**111—Introduction to Biology. (3).**

Designed as a general survey in biology for non-science students and elementary teachers. The general biological principles are introduced, with emphasis on the animal kingdom. Not acceptable for pre-professional students and biology majors. Two-hours lecture; two hours laboratory.

**112—Introduction to Biology. (3).**

A continuation of Biology 111 with emphasis on the plant kingdom. Not acceptable for pre-professional students and biology majors. Two hours lecture; two hours laboratory. Prerequisite: Biology 111.

**121—Anatomy and Physiology. (3).**

A detailed study of the structure and functions of the human organism. Designed exclusively for student nurses. Three hours lecture; two hours laboratory.

122—Anatomy and Physiology. (3).

A continuation of Biology 121. Prerequisite: Biology 121.

130—Microbiology. (3).

A course designed to meet the requirements of student nurses and physical education majors. Two hours lecture; two hours laboratory.

131—Human Anatomy and Physiology. (3).

A study of the human organism, its structure and the manner in which it operates. Primarily for those interested in Health and Physical Education. Two hours lecture; two hours laboratory.

132—Human Anatomy and Physiology. (3).

A continuation of Biology 131. Prerequisite: Biology 131. Two hours lecture; two hours laboratory.

141—General Plant Biology. (4).

A survey of the plant kingdom in which distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms are especially considered. Three hours lecture; two hours laboratory.

142—General Animal Biology. (5).

A survey of the animal kingdom in which the distribution, taxonomic relationships, morphology, physiology, and economic importance of selected forms are especially considered. Three hours lecture; four hours laboratory.

300—Genetics. (4).

A study of the principles of heredity. Laboratory work includes drosophila breeding experiments. Two hours lecture; four hours laboratory. Prerequisite: Biology 141 and 142 or the equivalent.

301—Heredity. (3).

A lecture course on the principles of heredity with applications to human problems. Designed especially for non-science students and recommended for teachers or others who desire a better understanding of heredity and eugenics. Not acceptable as credit on a biology major. Three hours lecture-discussion.

302—General Bacteriology. (4).

A general course dealing with the fundamentals of bacteriology. Two hours lecture; four hours laboratory. Prerequisite: one year of chemistry or one year of biology.

303—Nature Study and Bio-conservation. (3).

Designed to stimulate an interest in living things in their environment and to encourage the use of field work in teaching nature study and conservation in the grades. Two hours lecture, two hours field or laboratory.

304—Field Botany. (4).

Representative specimens of flowering plants in the Memphis area will be observed, classified and mounted. Prerequisite: Biology 141. Two hours lecture; four hours laboratory.

305—Biology of the Non-vascular Plants. (4).

Classification, distribution, structure, physiology, and economic importance of the thallophytes and bryophytes. Two hours lecture; four hours laboratory and field work. Prerequisite: Biology 141.

**311—General Entomology. (4).**

An introduction to the insects with emphasis on morphology, physiology, development, behavior, and ecology. Two hours lecture; four hours laboratory. Prerequisite: General Biology.

**312—General Entomology. (4).**

A continuation of Biology 311 with the emphasis placed on the classification of the insects, the interpretation and use of keys, and the preparation of a representative collection. Two hours lecture; four hours laboratory.

**315—History of Biology. (3).**

The development of the science of biology from early times. Individuals working in the field of biology and the influence of their contributions. Prerequisite: eight semester hours credit in biological sciences.

**330—The Relation of Microorganisms to Man. (3).**

The nature of and the activities of the microorganisms as they affect the welfare of man. Some time is devoted to the pathogens—etiology and the transmission of diseases, immunity, and other factors bearing upon the health of the individual and the community. Three hours lecture each week. No prerequisites.

**331—Comparative Anatomy of Vertebrates. (5).**

The origin, development, structure, and functions of the organs and systems of selected forms of vertebrates. Two hours lecture; six hours laboratory. Prerequisite: Biology 142.

**332—Vertebrate Embryology. (4).**

The development of selected vertebrate embryos from the fertilized egg cell. Two hours lecture; four hours laboratory. Prerequisite: Biology 331.

**341—Physiology (4).**

A study of the essential functions of living organisms with the necessary structural relationship to provide clarity of the subject. Emphasis is on the normal function of the human body. Prerequisites: five hours of zoology and one year of chemistry. Three hours lecture; two hours laboratory.

**352—General Ecology. (3).**

The study of plant and animal communities in relation to their environment. Two hours lecture and two hours laboratory each week. The laboratory will consist mainly of field trips. Prerequisites: Biology 141 and 142 or equivalent courses.

**361—Parasitology. (4).**

Distribution, morphology, life history, economic importance and control of some of the parasites of man and domestic animals. Protozoa through Platyhelminthes. Two hours lecture; four hours laboratory.

**362—Medical Entomology. (4).**

Distribution, morphology, life history, economic importance and control of some of the insects and other arthropods which are parasites or serve as vectors for disease-producing organism. Two hours lecture; four hours laboratory.

400—Problems in Biology. (2-4).

Individual problems in biology may be pursued by qualified students under the supervision of some member of the biology staff. The purpose of the course is to develop interest and proficiency in biological research.

403—Vertebrate Histology. (4).

Microscopic study of normal tissues and organs of the vertebrate body. Two hours lecture; four hours laboratory.

404—Histological Technique. (3).

Methods of preparing animal tissues for microscopic study, theories of staining, and preparation of permanent mounts. One hour lecture; four hours laboratory. Prerequisite: five hours of zoology or consent of the instructor.

405—Sanitary Bacteriology. (4).

A study of microorganisms in relation to water and sewage; disinfection and disinfectants. Two hours lecture; four hours laboratory. Prerequisite: Biology 302 or its equivalent.

410—Organic Development. (3).

The consideration of the theoretical and scientific evidences concerning the origin, development, and establishment of the major groups of living and extinct animals and plants. Prerequisite: one year of biology. Recommended for biology majors and general students as well.

430—Invertebrate Zoology. (4).

An advanced course dealing with the invertebrate animals, exclusive of the insects. Special attention is given to phylogeny, organology, and taxonomy. Two hours lecture; four hours laboratory. Prerequisite: Biology 142 or its equivalent.

440—Field Zoology. (4).

Designed to acquaint the student with a field knowledge of the animals of this locality. Identification, life history, and habitat will be considered. Birds and insects to be omitted. Two hours lecture; four hours laboratory. Prerequisite: eight hours of biology including five hours of zoology.

450—Cellular Physiology. (4).

A study of the fundamental unit of all living things. The basic activities of cells are investigated—nutrition, adaption, growth, and reproduction. Two hours lecture; four hours laboratory. Prerequisite: Biology 341.

### GRADUATE COURSES

Note: Courses preceded by "G" are described above.

G-403—Vertebrate Histology. (4).

G-404—Histological Technique. (3).

G-405—Sanitary Bacteriology. (4).

G-430—Invertebrate Zoology. (4).

G-440—Field Zoology. (4).

G-450—Cellular Physiology. (4).

510—Seminar in Biological Literature. (2).

512—Systematic Entomology. (3).

560—Protozoology. (4).

590—Research. (2-4).

591—Special Problems. (4).

593—Thesis. (3 or 6).

**DEPARTMENT OF  
CLASSICAL AND MODERN LANGUAGES**

**Mr. Watkins, Chairman**

**Mrs. Berfield, Mr. Bockian, Mrs. Heatherly, Mr. Long, Mr. Maddox,  
Mrs. Nelson**

**CLASSICAL LANGUAGES**

Students who major in Latin are required to take 12 hours of work in courses numbered above 299. The upper division courses will be chosen in consultation with the student's major advisor.

Students who minor in Latin are required to take 6 hours of work in courses numbered above 299. The upper division courses will be chosen in consultation with the student's major advisor.

Course 323 is given in English and is open to students who have had no Latin. This course may not be used to satisfy the language requirement or to complete the requirements for a major or minor.

**DESCRIPTION OF COURSES**

**LATIN**

111, 112—Elementary Latin. (3 credits each semester).

211, 212—Second Year Latin. (3 credits each semester).

Caesar, *Gallie Wars* Books I, IV, and V. Selections from Cicero's *Orations*, and Vergil's *Aeneid*, Books I, IV, and VI.

220—Advanced Latin Grammar and Composition. (3).

311, 312—Livy Books XXI and XXII and Horace's *Odes* and Selected *Satires*. (3 credits each semester).

351, 352—Ovid, *Metamorphoses* and Vergil, *Aeneid*, *Eclogues*, *Georgics*. (3 credits each semester).

361, 362—Cicero, *De Amicitia*, *De Senectute* and Pliny and Martial. (3 credits each semester).

411—Catullus and Horace. (3).

413—Roman Letter Writers. (3).

420—Roman Historians. (3).

421—Roman Satire. (3).

**GREEK\***

111, 112—Elementary Greek. (3 credits each semester).

211, 212—Second Year Greek. (3 credits each semester).  
Xenophon, *Anabasis*, Homer, *Odyssey*, Book IX.

**GENERAL COURSE**

323—Latin and Greek Etymology. (3).

Origin and derivation of words, especially those used in medicine and science.

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\* Greek 111, 112 may be substituted for 6 semester hours of upper division Latin to satisfy the language requirement for a B. A. degree.

**MODERN LANGUAGES****FRENCH<sup>1</sup>**

Students who major in French are required to take 12 hours of work in courses numbered above 299.

Students who minor in French are required to take 6 hours of work in courses numbered above 299.

Tests may be given to determine whether or not a student who has had two years of French in high school should take French 211.

Students in first year French may earn 4 credits instead of 3 each semester by attending two laboratory periods each week. These consist of conversation with foreign students, work with French records and recorder.

**DESCRIPTION OF COURSES**

- 111, 112—Elementary French. (3 credits each semester).
- 211, 212—Intermediate French. (3 credits each semester).
- 311, 312—Survey of French Literature. (3 credits each semester).
- 321, 322—Conversational French. (3 credits each semester).
- 411, 412—The French Novel. (3 credits each semester).
- 421, 422—The French Drama. (3 credits each semester).

**GERMAN<sup>1</sup>**

Students who major in German are required to take 12 hours of work in courses numbered above 299.

Students who minor in German are required to take 6 hours of work in courses numbered above 299.

The upper division courses will be chosen in consultation with the student's major advisor.

Students in first year German may earn 4 credits instead of 3 each semester by attending two laboratory periods each week. These consist of conversation with foreign students, work with German records and recorder.

**DESCRIPTION OF COURSES**

- 111, 112—Beginning German. (3 credits each semester).  
Reading, vocabulary, pronunciation, grammar.
- 211, 212—Intermediate German. (3 credits each semester).  
Extensive and intensive reading in German literature, enlarging the vocabulary, perfecting the pronunciation, reviewing the grammar.
- 311, 312—Survey of German Literature. (3 credits each semester).  
Readings of masterpieces and representative works setting forth German literature and culture from beginning to modern times.
- 322—Scientific German. (3).  
Reading in medical and scientific German. Open to students who have completed German 211.
- 351, 352—German Novel. (3).
- 411, 412—Studies in Classical and Modern Writers. (3 credits each semester).  
Covers the great works in German literature and their authors.
- 421, 422—Conversation and composition. (3 credits each semester).  
Practice in the speaking and understanding of German; intensive practice in composition and grammar review.

<sup>1</sup> Unless the student has at least 2 units of a foreign language earned in high school, credit toward a degree will not be allowed for less than one year's work in that language.

### SPANISH<sup>1</sup>

Students who major in Spanish are required to take 12 hours of work in courses numbered above 299. The upper division courses will be chosen in consultation with the student's major advisor.

Students who minor in Spanish are required to take 6 hours of work in courses numbered above 299. The upper division courses will be chosen in consultation with the student's major advisor.

Students in first year Spanish may earn 4 credits instead of 3 each semester by attending two laboratory periods each week. These consist of conversation with foreign students, work with Spanish records and recorder.

A student who wishes to major in Spanish will be advised to take certain related courses as well as the prescribed courses in Spanish, on a basis of what studies he has had in high school and whether he wishes to use Spanish commercially or as a teacher.

### DESCRIPTION OF COURSES

111, 112—Elementary Spanish. (3 credits each semester).

Open to students who have had no Spanish and to students who have had less than the prerequisite for 211.

211, 212—Intermediate Spanish. (3 credits each semester).

Prerequisite Spanish 112 or the equivalent, i.e., two years of high school Spanish.

311, 312—Survey of Spanish Literature. (3 credits each semester).

Offered in 1956-1957 and alternate years. Prerequisite: Spanish 212.

321—Advanced Composition and Conversation. (3).

Offered in 1957-58 and alternate years.

331—Commercial Spanish. (3).

Study of technical terms, vocabulary, and phraseology used in business and commerce with Spanish-speaking countries, such as letters, invoices and papers required by consular regulations.

Offered in 1957-58 and alternate years.

412—Modern and Contemporary Spanish Prose. (3).

Novel, short story, and essay.

413—Modern and Contemporary Spanish Drama and Poetry. (3).

421—Spanish-American Literature. (3).

Drama, poetry and essay.

422—Spanish-American Short Story. (3).

423—Spanish-American Novel. (3).

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<sup>1</sup> Unless the student has at least 2 units of a foreign language earned in high school, credit toward a degree will not be allowed for less than one year's work in that language.

## DEPARTMENT OF ENGLISH

Mr. Evans, Chairman

Mr. Abbett, Mr. Bannon, Mrs. Battle, Mr. Birmingham, Mr. Brown, Mr. Carson, Miss Chaney, Mrs. Childers, Mr. Cotham, Mr. Farrior, Mrs. Fox, Mr. Howell, Mr. James, Mrs. Krause, Mr. McLaurin, Mr. McLemore, Mr. Lovell, Mr. Morgan, Mrs. Olstead, Mr. Osborne, Mrs. Phillips, Mr. Riley, Miss Seay, Mr. Alfred Smith, Mr. Walter Smith, Mr. Woolf, Mr. Wynn.

All candidates for graduation at Memphis State University are required to complete English 111, 112, 211, 212, or their equivalent. These courses should be taken consecutively through the freshman and sophomore years. No credit will be allowed on any course until all the preceding courses are completed. These courses cannot be dropped from the student's course load, except under very special conditions.

In addition to this requirement of 12 semester hours, students majoring in English must complete courses in the department as follows:

English 301, 302, 470.....	not less than 3 hrs.
English 340, 341, 342, 350, 351, 352.....	not less than 3 hrs.
English 420, 421, 422, 423, 424.....	not less than 3 hrs.
English 432, 433.....	not less than 3 hrs.

Elective courses in English amounting to not less than 6 hours must be completed.

A minor in English includes English 111, 112, 211, 212 and 12 additional hours in English, at least 6 of which must be selected from the upper division courses required of an English major. These courses should be selected from two groups listed above as major requirements.

Transfer students either majoring or minoring in English must take at least 6 hours of work in English at Memphis State University.

English majors planning to teach in high school should take the teaching of high school English in the Department of Education. Courses in advanced grammar, mythology, and English history are strongly urged for prospective teachers.

## DESCRIPTION OF COURSES

### 111—English Fundamentals. (3).

Training in correct writing, including drill in sentence and paragraph construction, diction, punctuation, grammar, spelling, expository and narrative themes, and book reports.

### 112—English Fundamentals. (3).

A continuation of English 111, devoted to reading for comprehension, the more complex forms of writing (including the research paper), and an introduction to literary types.

### 211—English Literature. (3).

A survey of English literature from the beginning to the period of Romanticism, with emphasis placed on major writers: Chaucer, Spenser, Shakespeare, Milton, Dryden, Addison and Steele, Pope, and Goldsmith.

### 212—English Literature. (3).

A survey of English literature from the period of Romanticism

to the present day, with emphasis on the major writers: Wordsworth, Coleridge, Shelley, Byron, Keats, Carlyle, Tennyson, Browning, Arnold, Hardy, Housman, Yeats, and Eliot. English 211 is a prerequisite.

301—Survey of American Literature. (3).

From the Colonial period to the Civil War.

302—Survey of American Literature. (3).

Continuation of 301; from the Civil War to the present.

311—Early American Novel. (3).

A critical examination of the background of the American novel from its beginning. Readings will consist of representative novels of the nineteenth century America.

312—The Modern American Novel. (3).

Critical analysis and appreciation of representative modern American novelists, including Howells, James, Crane, London, Norris, Dreiser, Lewis, Dos Passos, Hemingway, Wolfe, Steinbeck, Faulkner.

313—The Continental Novel. (3).

Critical analysis and appreciation of representative novels chosen from the works of Gogol, Turgenev, Tolstoi, Dostoevski, Zola, Flaubert, France, Proust, Gide, Sartre, Camus, Mann, Kafka.

331—The Short Story. (3).

A critical study of modern short stories, English, American, and European: the authors' responses to the personal, social, and ethical problems of their time and their techniques as artists.

332—Modern Poetry. (3).

Critical analysis and appreciation of representative works of the major recent and contemporary English and American poets, including Hardy, Hopkins, Yeats, Robinson, Frost, Pound, Eliot, Stevens, Williams, Thomas, and others.

340—Seventeenth Century Literature. (3).

The major poetry and prose of Donne, Ben Jonson, Bacon, Browne, Dryden and others are analyzed carefully and considered in relation to the historical and intellectual developments of the seventeenth century.

341—Eighteenth Century English Literature. (3).

Poetry and prose from Pomfret to Blake. Detailed study of representative works with some attention to the origin and course of neo-classicism and romanticism.

342—Romantic Poets of the Nineteenth Century. (3).

The poetry of Shelley, Keats, and Byron. Collateral readings in prose of the period.

350—The Renaissance. (3).

A study of non-dramatic poetry and prose of sixteenth century England.

351—Victorian Poetry. (3).

A study of major English poets writing between 1830 and 1900, with some consideration of the social, intellectual, and aesthetic interests of their times. Particular attention will be given to the poetry of Arn-

old, Rossetti, Morris, and Swinburne; additional selections will be drawn from the works of such poets as Fitzgerald, Clough, Christina Rossetti, Meredith, Hopkins, Hardy, and Housman.

352—Victorian Prose. (3).

A study of selections from the critical and philosophical prose of the great Victorians, with consideration of social, political, intellectual, and aesthetic ideas and interests of their era (1830-1900). Particular attention will be devoted to the major works of such authors as Carlyle, Mill, Newman, Arnold, Ruskin, Morris, Huxley, and Pater.

361—World Literature—Ancient Period. (3).

Classics from ancient literature, principally Greek and Roman, are studied with a view to discovering permanent elements of culture. English translations are used.

362—World Literature—Medieval Period. (3).

A study of translated European classics beginning with the medieval epic and ending with the Renaissance.

370—Mythology. (3).

A study of the myths of Greece and Rome.

372—Creative Writing.

Extensive writing of essays and short stories. Intensive study of literary models. Class discussion and criticism of student manuscripts. Prerequisite: Permission of instructor.

380—Biblical Literature. (3).

A study of selected books from the Old and New Testaments for their literary value. Consideration is given to the place of the Bible in world literature. Attention is called to famous literary forms appearing in biblical literature.

400—Literary Criticism. (3).

The major documents in Western criticism, from Plato to the present.

411—Early English Drama. (3).

British drama is traced from its beginnings to the closing of the theaters in 1642, exclusive of Shakespeare.

412—English Drama Since 1642. (3).

The course of British drama is further traced, beginning with the Restoration and continuing to the present era.

420—Spenser. (3).

*The Faerie Queene* and other major poems are studied in the context of the historical, intellectual, and literary developments of the English Renaissance.

421—Chaucer. (3).

As many of *The Canterbury Tales* as possible are read and discussed in class.

422—Milton. (3).

The poetry of Milton is emphasized in this course, with some attention given to his essays. Papers and reports are assigned.

423—Tennyson and Browning. (3).

An intensive study of selected poems of different types produced by each poet. Their philosophy and religion are considered, as well as their connection with forerunners and successors.

424—Coleridge and Wordsworth. (3).

The poetry and prose of Coleridge and Wordsworth with special attention to *The Prelude*.

**432—Shakespeare's Tragedies. (3).**

All of Shakespeare's tragedies are read and critical examination is made of at least five of the author's greatest works. Attention is given to the principles governing tragedy.

**433—Shakespeare's Comedies and Histories. (3).**

The best known of Shakespeare's comedies are included in this course. In addition several of his histories are studied.

**441—The English Language. (3).**

This course involves a thorough investigation of the development of the English language from the standpoint of its phonology and etymology.

**442—English Grammar. (3).**

The historical development of English grammatical principles.

**443—Semantics. (3).**

Meaning and change of meaning in the use of English words.

**444—The Nature and Development of Language. (3).**

A survey of the general field of language and its relation to society and culture, as a background for the English language.

**451—The English Novel. (3).**

A critical appreciation of representative novels. Class discussion of their literary and historical merit and of their reflection of the authors' responses to the personal, social, and ethical problems of the times. From the Age of Elizabeth to mid-nineteenth century.

**452—The English Novel. (3).**

A continuation of 451. From mid-nineteenth century to the present.

**461—American Authors. (3).**

An analysis of the work of three nineteenth century writers of fiction—Poe, Hawthorne, and Melville—with special attention to their themes and artistic forms.

**462—American Authors. (3).**

An appreciation of Emerson, Thoreau, and Whitman as poets and essayists, with emphasis upon their place in the development of ideas and art forms.

**470—The South in Literature. (3).**

A study of the culture and traditions of the South as reflected in its literature. Considerable independent reading will be required.

**490—British and Continental Backgrounds of English Literature. (6).**

This course is offered through Travel and Study only, and students are admitted by special permission of the teacher and conductor.

### **GRADUATE COURSES**

Courses preceded by "G" are described above.

**G400—The Principles of Literary Criticism. (3).****G411—Early English Drama. (3).****G412—English Drama Since 1642. (3).**

- G420—Spenser. (3).  
G421—Chaucer. (3).  
G422—Milton. (3).  
G423—Tennyson and Browning. (3).  
G424—Coleridge and Wordsworth.  
G432—Shakespeare's Tragedies. (3).  
G433—Shakespeare's Comedies and Histories. (3).  
G441—The English Language. (3).  
G442—English Grammar. (3).  
G443—Semantics. (3).  
G444—The nature and Development of Language. (3).  
G451—The English Novel. (3).  
G452—The English Novel. (3).  
G461—American Authors. (3).  
G462—American Authors. (3).  
G470—The South in Literature. (3).  
G490—British and Continental Backgrounds of English Literature. (6).  
531—Studies in Ancient Drama. (3).  
532—Studies in Medieval and Modern Drama. (3).  
542—Studies in the Eighteenth Century Novel. (3).  
543—Restoration and Eighteenth Century Poetry. (3).  
551—Milton and His Age. (3).  
552—Milton and His Age. (3).  
561—Studies in American Literature Before 1860. (3).  
562—Studies in American Literature Since 1860. (3).  
571—Studies in the Literature of the Romantic Period. (3).  
572—Studies in Victorian Literature. (3).

## DEPARTMENT OF HISTORY

Mr. Mitchell, Chairman

Mr. Boom, Mr. C. S. Brown, Mr. Burrow, Mr. Coffman, Mr. Curry,  
Mr. Ellis, Mr. Gaiser, Mr. Newcomer, Mr. Orr, Mr. Utley,  
Mrs. Woodbury

The specific requirements for a major in history are as follows:

1st year—History 111-2, and Geography 121-2.

2nd year—History 221-2; and Economics 211-2, or Political Science 221-2, or Sociology 211-2.

3rd year—Six hours in 300 or 400 courses.

4th year—Six hours in 300 or 400 courses.

Hours required in history, 24; additional hours required, 12.

History 221-2 must be completed for college graduation. These courses are also prerequisites for all 300 and 400 courses in history.

A minor in history includes 12 hours in the Lower Division and 6 hours in the Upper Division.

History 221 and History 222 are not open to students with less than 25 semester hours of credit.

## DESCRIPTION OF COURSES

### EUROPEAN HISTORY

111—European Civilization from 1300 to 1815. (3).

112—European Civilization since 1815. (3).

301—History of England before 1660. (3).

The development and growth of England, including the mingling of racial and cultural elements, into a nation. Particular attention will be given to constitutional progress and the achievements of the Tudor and Stuart periods.

302—England since 1660. (3).

The development of England's democratic government will be emphasized. Economic, social, intellectual, diplomatic, and imperial affairs will also be considered.

313—Medieval History. (3).

A study of the economic and political forces, and more especially the intellectual and cultural movements of the period ending with the Roman Empire in the west and ending with the beginnings of modern thought during the Renaissance.

402—Russian History. (3).

This course offers a survey of Russian history from early times to the present.

411—The French Revolution. (3).

The Enlightenment, the French Revolution, and the Napoleonic era will be studied. Attention will be paid to the effects of these movements on Europe as a whole.

412—Europe in the Nineteenth Century. (3).

This course traces the history of Europe through the periods of reaction, revolution, unification and reform, 1815-1914.

413—Europe in the Twentieth Century. (3).

This course deals with the rapid developments leading through World War I, the peace conference, the uneasy inter-war years, World War II, and recent reconstruction and efforts to secure the peace.

441—History of the Ancient Near East. (3).

A study of the early civilizations of Mesopotamia, Egypt, and Palestine. Especial attention will be paid to the interrelation of cultural influences between these areas and the contributions of each to western culture.

442—History of Greece. (3).

The growth and peak of ancient Greek civilization are presented in this course. Emphasis will be placed on the philosophy, literature, art and architecture of the classic and Hellenistic periods.

443—The History of Rome. (3).

Roman expansion, organization and administration of the Republic and the Empire will be considered in this course. The permanent contributions of Rome to western culture in law, government, and literature will be especially considered.

451—The Renaissance. (3).

A study of the achievements and forces, political and economic, social and cultural, creative and intellectual, which made up this fascinating foundation of modern western and European culture.

452—The Age of the Reformation. (3).

This course offers the history of the Age of the Reformation in European history.

G481—Problems in Western Civilization. (3).

Designed to appeal to senior students and history majors, this course interrelates the academic disciplines by analyzing selectively the translation of political, religious, and economic ideas into institutions in the history of Western Civilization.

G482—Problems in Western Civilization—Con. (3).

## **UNITED STATES HISTORY**

221—United States to 1865. (3).

222—The United States Since 1865. (3).

321—Colonial America. (3).

A study of English America before 1783. Considerable attention is also given to Spanish, French, and Dutch colonization.

322—The West. (3).

A study of the significance of the frontier in the development of the United States from the Revolutionary period to 1890.

**331—American Diplomatic History to 1889. (3).**

This course begins with the diplomatic history of the Revolution and emphasizes treaties and foreign relations as they affected the expansion and development of the United States to 1889.

**332—American Diplomatic History since 1889. (3).**

A continuation of 331, beginning with the development of Pan-Americanism and extending through the diplomacy of World War II.

**341—Economic History of the United States to 1860. (3).****342—Economic History of the United States since 1860. (3).****421—Foundations of Twentieth-Century America. (3).**

A comprehensive study of the United States from the end of the Civil War to the outbreak of World War I.

**422—Recent American History. (3).**

A comprehensive study of the United States from World War I to the present.

**431—Tennessee. (3).**

The political, economic, and social development of Tennessee from 1769 to 1861 is emphasized. A study is made of the land question, Indian affairs, internal improvements, early educational developments, the Constitutional Convention of 1834, the slavery controversy, and secession.

**432—The Old South. (3).**

This course begins with a study of the colonial South and traces its history to secession. It involves a study of the economic and social patterns of the South in their relation to Southern ideology. Special attention is devoted to the Southern political leader and the relation of slavery to his thought and political ideas.

**433—Civil War. (3).**

A study of the causes of the Civil War, the campaigns of the war, and of internal conditions in the Union and in the Confederacy.

**461—Social and Intellectual History of the United States to 1865. (3).****462—Social and Intellectual History of the United States Since 1865. (3).**

### **LATIN AMERICAN HISTORY**

**371—Latin America to 1825. (3).**

A survey of Latin American history, beginning with the pre-Columbian Indian civilizations and tracing the discovery, conquest, colonization, and wars of independence to 1825.

**372—Latin America Since 1825. (3).**

A continuation of History 371, tracing the development of the Latin American nations from independence to the present.

**471—Latin America in World Affairs. (3).**

A study of the role of Latin American nations in international affairs in the nineteenth and twentieth centuries with special attention to the Inter-American system and the role of the United Nations in Latin American affairs.

472—Argentina, Brazil, and Chile. (3).

A survey of the history of the ABC powers from pre-Columbian times to the present. Special emphasis is placed on a comparison and contrast of the political, economic, and social problems of these countries.

475—Mexico. (3).

A survey of the history of Mexico from pre-Columbian civilizations to the present.

### **Graduate Courses**

Note: Courses preceded by "G" are described above.

G402—Russian History. (3).

G411—The French Revolution. (3).

G412—Europe in the Nineteenth Century. (3).

G413—Europe in the Twentieth Century. (3).

G421—Foundations of Twentieth-Century America. (3).

G422—Recent American History. (3).

G431—Tennessee. (3).

G432—The Old South. (3).

G433—Civil War. (3).

G441—History of the Ancient Near East. (3).

G442—History of Greece. (3).

G443—The History of Rome. (3).

G451—The Renaissance. (3).

G452—The Age of the Reformation. (3).

G471—Latin America in World Affairs. (3).

G472—Argentina, Brazil, and Chile. (3).

G475—Mexico. (3).

500—Historical Method. (3).

511—The Age of Reformation. (3).

512—The Age of Absolutism. (3).

513—Tudor and Stuart England. (3).

516—European Diplomacy, 1870-1918. (3).

517—European Diplomacy since 1918. (3).

521—The Revolutionary Era, 1763-1789. (3).

522—Jeffersonian and Jacksonian Democracy. (3).

527—The New South. (3).

528—The Progressive Movement in American History. (3).

539—Seminar in History. (3).

593—Thesis Writing. (3).

**DEPARTMENT OF JOURNALISM**

**Mr. Williams, Chairman**  
**Mrs. Spencer, Mr. Westland**

Students in the Department of Journalism may work for either a Bachelor of Arts or a Bachelor of Science degree. The requirements in journalism are identical for both degrees, but students are advised to consult the catalog for general university requirements and specific school requirements for these degrees.

Two majors are offered in the Department of Journalism: one in the **news-editorial curriculum** for the student who wishes to prepare himself for work as a reporter, copyreader, special writer, or departmental executive in specific areas of mass communication; and one in the **advertising curriculum** for the student who plans to enter any phase of professional work in creative advertising.

**Curriculum for News-Editorial Majors**

The news-editorial major will include a minimum of 30 semester hours, 15 hours of which will be upper-division journalism courses. Required courses are outlined below:

	hours
111 Survey of Mass Communication.....	3
112 Introduction to Modern Journalism.....	3
211 Elementary News Writing.....	3
212 Reporting .....	3
312 Copyreading and Makeup.....	3
332 Feature and Article Writing.....	3
450 Public Relations .....	3
	<hr/>
	21
Electives in Journalism.....	9
	<hr/>
Total.....	30

**Curriculum for Advertising Majors**

The advertising major will include a minimum of 30 semester hours. Of this total, 18 hours will be required in journalism, 6 hours will be required in the related courses prescribed below, and 6 hours will be electives as outlined below:

Required journalism courses:	hours
111 Survey of Mass Communication.....	3
112 Introduction to Modern Journalism.....	3
214 Advertising Copy Writing.....	3
315 Advertising Sales .....	3
413 Community Newspaper Management.....	3
450 Public Relations .....	3
	<hr/>
	18

Required related courses:

Mktg 301 Principles of Marketing.....	3
Art 315 Advertising Design .....	3
	<hr/>
	6

Electives (6 hours from the following):

Art 316 Advertising Design .....	3
Art 323 Package Design .....	3
Art 423 Advanced Advertising Design .....	3
Mktg 351 Principles of Advertising .....	3
Mktg 352 Advanced Principles of Adv. ....	3
Mktg 356 Retail Advertising .....	3
	<hr/>
Total.....	30

The Department also offers a minor in journalism, which includes a minimum of 18 semester hours. Journalism 111, 112, and 211 are required. Other courses will be selected in accordance with the student's plan to use journalism. All minors must include at least 6 hours of upper-division journalism courses.

Students are encouraged to work on The Tiger Rag, student weekly newspaper; The DeSoto, university yearbook; or the News Bureau. These publication outlets will be used for practice work in classes as often as possible. No specific credit will be given, however, until the senior year.

### DESCRIPTION OF COURSES

111—Survey of Mass Communication. (3).

A survey course in the social background, the scope, the functions, the organization of modern mass media of communication. Attention will be given to the newspaper, the magazine, motion pictures, radio, television, books and comics.

112—Introduction to Modern Journalism. (3).

A broad study of the development of current techniques of writing for publication, with emphasis on the American press.

200—Typography. (3).

A lecture-laboratory course devoted to the study of the development of type and the processes of composition, engraving, stereotyping, and printing. Students are provided an opportunity to practice principles governing the effective use of type and illustration in mass communication.

211—Elementary News Writing. (3).

A study of news story structure and factors that determine the value of news. Both the theoretical and practical aspects of news gathering and reporting will be considered in lecture and laboratory sessions.

212—Reporting. (3).

Based on assignment work in gathering and writing news of the university community. Assignments may be arranged with suburban newspapers, The Tiger Rag, or the News Bureau.

214—Advertising Copy Writing. (3). Fall Semester.

The principles of advertising psychology are studied in their relation to the proved techniques for writing effective copy. Approximately half of the course is devoted to laboratory practice in writing advertisements.

312—Copyreading and Makeup. (3). Spring Semester.

Analysis of headline writing, editing practice, and newspaper and magazine page makeup, with *The Tiger Rag* used as a laboratory.

315—Advertising Sales. (3).

Practical experience in the preparation and selling of completed advertisements. The student will service his own clients throughout the semester, using *The Tiger Rag* as a space medium.

322—Advanced Reporting. (3).

A course intended to develop further the complete reporter by building on the foundations laid in Course 212. Attention will be paid to specialized reporting, including featurized news, sports, society, critical writing, handling publicity.

325—Press Photography. (3).

Taking pictures with the news camera, developing films, making enlargements, cropping and scaling for publication. Students should bring own cameras to course. Open to non-majors by permission of departmental chairman.

330—Radio News Writing and Editing. (3). Fall Semester.

This is a course in the processing of news for radio. Students will study radio news style, practice and preparation of special-event reporting. Students must have a knowledge of current events. Work will include one lecture period each week at the college and four hours each week working in Memphis radio station news rooms.

332—Feature and Article Writing. (3).

A study of the magazine market and the techniques involved in writing the feature story. Students will write and submit articles for publication in magazines, newspapers, and for acceptance by syndicates. Attention will be paid to requirements for periodicals to which sale is attempted.

340—Photojournalism. (3).

The selection and arrangement of illustrative material for newspapers and magazines. The analysis, use, and influence of the news picture will be studied. The technique of the "picture story" will be approached and the role of the picture magazine in the field of communication will be discussed.

401-402—Writing Projects. (1-3 credits each semester).

Internships for students who have completed basic courses in journalism or whose work in other phases of journalism will prepare them to handle the duties. Students may take work on (a) *The Tiger Rag*, student newspaper, (b) *The DeSoto*, student yearbook, (c) the *News Bureau*, or (d) approved research in journalism.

411—History of Journalism. (3).

A study of the origin of journalism in America and its development in the United States to the present time. It is recommended a

student complete courses in United States history before enrolling in this class.

**412—The Editorial. (3).**

A study of the work of the editor and editorial writer with emphasis upon editorial writing and thinking. Editorial problems, methods, policies, and style will be studied.

**413—Community Newspaper Management. (3). Spring Semester.**

A survey of the problem of community newspaper management. Historical and contemporary views of the small town daily and country weekly newspaper will be studied in their economic, social and cultural aspects, with emphasis on the role of the editor in community life.

**421—Journalism in the Secondary Schools. (3). Fall Semester.**

Intended primarily for those who expect to teach journalism in high school or to supervise high school publications. Financial problems, manner of directing high school courses and publications, and their relation to educational objectives will be discussed. Also, attention will be given to advising the school administration on the preparation of news releases and public relations.

**440—Literature of Journalism. (3).**

A bibliographical approach to the overall field of mass communication, consisting of critical reading of selective works. Admission to course by approval of department only.

**450—Public Relations. (3). Fall Semester.**

A survey course presenting the field of public relations to the layman so he may best deal with newspapers, radio and television stations, and other media. A course designed to aid all individuals to better their contacts with these media so that all may gain through better handling of information.

### **Graduate Courses**

Courses preceded by "G" are described above.

**G421—Journalism in the Secondary Schools. (3).**

**G440—Literature of Journalism. (3).**

**G450—Public Relations. (3).**

**DEPARTMENT OF MATHEMATICS****Mr. Kaltenborn, Chairman**

**Mr. Anderson, Mr. Bethany, Mr. Farrimond, Mrs. Kaltenborn, Mr. Lowe, Mrs. McBride, Mr. Poole, Mr. Potter, Mr. Prewitt, Mr. Reeves, Mr. Smith, Miss Street, Mr. VanBrocklin, Mr. Walker, Mr. Wheat, Mr. Winfrey.**

The courses in mathematics are designed to meet the needs of all undergraduate programs. Specific requirements in mathematics may be satisfied as follows: for removal of deficiencies in mathematics for entrance to School of Arts and Sciences, Math. 101 or 121; for graduation requirement in natural science in the School of Arts and Sciences, Math. 101, 121 or Math. 121, 122; for graduation requirement in The School of Business, Math. 121; for graduation requirement in the School of Education, Math 101; for core curriculum of teacher certification requirements, Math. 101 or 121 or 141; for students in the medical arts, as co-requisite for chemistry, Math 121; for basic engineering or a major in natural science, Math. 141-2 and Math 311-2. Students with inadequate background in algebra must complete Math. 121 before scheduling Math. 141.

A minor in mathematics consists of at least 18 semester hours, including at least 6 hours numbered above 299.

A major in mathematics requires at least 8 hours in either chemistry or physics, one year of calculus (Math. 311-2) and its prerequisites (Math. 141-2), and at least 12 hours in mathematics courses numbered above 312. Students majoring in mathematics who wish to obtain teaching certificates must comply with all general and professional requirements listed under the School of Education.

**DESCRIPTION OF COURSES**

101—Mathematical Concepts. (4).

Functional arithmetic; major concepts of number, measurement, function and proof.

121—Basic Mathematics. (3).

Fundamental operations of arithmetic and algebra; exponents and logarithms; factoring, fractions; linear equations; verbal problems.

122—Basic Mathematics. (3).

Quadratic equations; binomial theorem; trigonometric functions; probability; statistical processes.

Prerequisite: Math. 121 or qualifying test.

141—College Algebra and Trigonometry. (5).

Essentials of college algebra and trigonometry.

Prerequisite: Math. 121 or qualifying test.

142—Analytic Geometry and Calculus. (5).

Essentials of analytic geometry with an introduction to calculus, including the nature of derivatives, differentiation of algebraic functions and elementary applications.

Prerequisite: Math. 141.

## 221—Finite Mathematics. (3).

Symbolic logic; elementary theory of sets; probability theory; vectors; linear programming.

Prerequisite: Math. 122 or 141.

## 301—Mathematics of Finance. (3).

Compound interest and annuities, with applications; introduction to life insurance.

Prerequisite: Math. 122 or 141.

## 311—Calculus. (5).

Differentiation of transcendental functions; differentials; applications of differentiation; curvilinear motion; law of the mean; definite integral; technique of integration.

Prerequisite: Math. 142.

## 312—Calculus. (5).

Applications of definite integral; power series; partial differentiation; multiple integrals.

Prerequisite: Math. 311.

## 321—Elementary Statistics. (3).

Basic statistical concepts; elementary probability theory; normal curve and applications; linear, multiple and partial correlation; statistical inference.

Prerequisite: Math. 122 or 141, or Mgmt. 371.

## 322—Applied Statistics. (3).

Methods of analysis; sampling; runs; tests of hypotheses concerning mean, variance and randomness; quality control; confidence intervals; chi-square test: applied problems. Prerequisite: Math. 321.

## 331—Probability. (3).

Classical probability theory; stochastic variables; joint distributions; probability density functions; limit theorems; practical applications. Prerequisite: Math. 312 and 321.

## 401—Foundations of Mathematics. (3).

Symbolic logic; the postulational method; the real number system; set theory; inequalities; limits. Prerequisite: Math. 142.

## 411—Applied Mathematics. (3).

Differential equations with applications. Prerequisite: Math. 312.

## 412—Applied Mathematics. (3).

Elliptic integrals; Gamma and Beta functions; Bessel functions; Fourier series; Laplace transform. Prerequisite: Math. 411.

## 421—History of Mathematics. (3).

The development of mathematics from the earliest times to the present; problem studies; parallel reading and class reports. Prerequisite: Math. 401.

## 422—Theory of Numbers. (3).

Number theoretic functions; congruences; quadratic residues; Diophantine equations; continued fractions. Prerequisite: Math. 401.

## 441—Algebraic Theory. (3).

Theory of groups, rings and fields, with applications. Prerequisite: Math 401.

## 442—Matrix Theory. (3).

Matrix operations; equivalence, congruence and similarity of matrices; linear algebras; vector spaces; Boolean algebra. Prerequisite: Math. 401.

## 461—Geometric Theory. (3).

Foundations of geometry; extensions of Euclidean geometry; non-Euclidean geometry; introduction to projective geometry. Prerequisite: Math. 401.

## 471—Advanced Calculus. (3).

Continuous functions; mean value theorems; partial differentiation with applications; multiple integrals with applications; infinite series; power series; improper integrals. Prerequisite: Math. 312, 401.

### Graduate Courses

Courses preceded by "G" are described above.

## G401—Foundations of Mathematics. (3).

## G421—History of Mathematics. (3).

## G422—Theory of Numbers. (3).

## G441—Algebraic Theory. (3).

## G442—Matrix Theory. (3).

## G461—Geometric Theory. (3).

## G471—Advanced Calculus. (3).

## 501—Introduction to Modern Mathematics. (3).

## 511—Modern Algebra for High School Teachers. (3).

## 512—Modern Geometry for High School Teachers. (3).

## 513—Probability and Statistical Applications. (3).

## 521—Seminar in the Teaching of Algebra. (1).

## 522—Seminar in the Teaching of Geometry. (1).

523—Seminar in the Teaching of Advanced High School Mathematics.  
(1).

## DEPARTMENT OF MUSIC

Mr. Harris, Chairman

Mr. Birmingham, Mr. DeFrank, Mr. Franklin, Mr. Eaheart, Miss Gandy,  
Mr. Gilbert, Mr. Haggh, Mr. Hale, Mr. Hermann, Mrs. Maxwell,  
Mr. Robertson, Mrs. Taylor, Mr. Terry, Mr. Vergos

The Department of Music offers work leading to three degrees granted by the School of Arts and Sciences:

1. Bachelor of Music
2. Bachelor of Arts, and
3. Bachelor of Science.

The Bachelor of Music degree is a professional degree which provides the greatest opportunity for specialization, as both the major and the minor areas are required to be in music. For this degree as many as 92 of the 132 hours required for graduation may be in music.

The Bachelor of Arts and the Bachelor of Science degrees both provide for a major in music and a minor in a field other than music. For these degrees not more than 42 hours of the 132 required for graduation may be in music, or in any other one subject. (A student who exceeds the maximum of 42 hours in music must also exceed the minimum degree requirements of 132 hours to a like extent.) The Bachelor of Arts and the Bachelor of Science degrees are the same in their requirements in music but are different in their academic requirements, as the Bachelor of Arts requires more study in foreign languages, social sciences, and natural sciences than does the Bachelor of Science degree.

### BACHELOR OF MUSIC DEGREE

**ENTRANCE REQUIREMENTS FOR BACHELOR OF MUSIC DEGREE.** The entrance requirements for the Bachelor of Music degree are the same as the entrance requirements for the Bachelor of Science degree. See page 60.

In addition to the general requirements of the School of Arts and Sciences, Bachelor of Music students must complete work in four different categories: (1) academic, (2) the music core, (3) a music major, and (4) a music minor. These requirements follow.

#### 1. Bachelor of Music Academic Requirements

English 111, 112, 211, 212 .....	12
Physical Education .....	4
History 111, 221, 222 .....	9
Foreign Language .....	6
‡Mathematics 101 or 121 .....	3
‡Physics 270—Acoustics of Musical Sounds .....	3
<b>Total</b>	<b>37</b>

#### 2. Bachelor of Music Music Core

Mus. 111A,B; 112A,B; 211A,B; 212A,B—Music Theory.....	16
Mus. 119—Survey of Music Literature.....	3
Mus. 301—Counterpoint .....	3
Mus. 308—Form and Analysis .....	3

‡Under certain circumstances and if approved by the Director, the regular science requirements in the School of Arts and Sciences may be substituted for these Mathematics and Physics courses.

Mus. 317—Conducting and Score Reading .....	3
Mus. 401, 402—History of Music .....	6
Music Ensembles .....	8
*Major Performance Area .....	8
Total	50
3. Bachelor of Music Majors (Choose one).	
a. Applied Music: Instrumental. (Piano, Organ, Stringed or Wind Instrument)	
*Major Instrument (Recital Required) .....	8
Mus. 315—Instrumentation .....	3
Small Ensembles and Chamber Music.....	4
Piano (for non-piano majors).....	2
Liberal Arts Elective.....	3
Total	20
b. Applied Music: Voice	
*Voice (Recital Required).....	8
*Piano .....	4
Small Ensembles (Opera Workshop, Madrigal, etc.).....	4
Mus. 417—Choral Techniques.....	3
Foreign Language .....	12
Total	31
c. Music Theory and Composition.	
(Recital or Thesis Required)	
Mus. Ed. 132, 133, 134, 135, 136, 137 and 138	
Class Instruction in Strings, Winds, Percussion.....	7
‡Mus. 302, 303—Canon and Fugue .....	4
‡Mus. 305, 306, 405, 406—Composition.....	8
Mus. 315—Instrumentation .....	3
Liberal Arts Elective.....	3
Total	25
d. Music History and Literature.	
(Recital or Thesis Required)	
Mus. 411—Comparative Arts .....	3
Mus. 412—Modern Music .....	3
Mus. 413—The Opera and the Music Drama.....	3
Mus. 414—Keyboard Instrument Literature.....	3
Foreign Language .....	6
History of Art.....	6
History of the Theatre.....	6
Mythology .....	3
European History .....	3
Total	36

\* These credits are to be acquired on the basis of one individual lesson per week during each of the eight semesters. Credits transferred from other institutions will be evaluated on this basis.

‡Individual lessons with additional fees as stated for applied music courses.

## e. Music Education.

(Recital Required)

Mus. 315—Instrumentation .....	3
# Music Methods .....	6
# Applied Music .....	4-10
# General Education .....	15
# Professional Education .....	24
(Professional Education constitutes the minor for Music Education majors; an additional minor in music is not required.)	
Total	52-58

## f. Church Music

(Recital or Direction and Public Presentation of a Cantata  
Required)

Mus. Ed. 132, 134, 136—Class Instruction in String, Woodwind, and Brass Instruments.....	3
Mus. 315—Instrumentation .....	3
Mus. 417—Choral Techniques .....	3
Mus. 418, 419—Sacred Music I, II.....	6
Biblical Literature .....	3
Philosophy .....	6
Total	24

## 4. Bachelor of Music Music Minor.

The minor in music shall consist of not less than six hours of related Upper Division courses selected with the approval of the Chairman of the Department of Music and the Director of the School of Arts and Sciences.

### BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE WITH A MAJOR IN MUSIC

Bachelor of Arts or Bachelor of Science students who wish to major in music must meet the requirements of the School of Arts and Sciences which apply to academic subjects and to a minor area other than music. The work in music falls into two categories, (1) a music core, and (2) a chosen field of concentration. These are specified below.

## 1. Music Major Music Core.

Mus. 111A,B; 112A,B; 211A,B; 212A,B—Music Theory.....	16
Mus. 119—Survey of Music Literature.....	3
Mus. 301—Counterpoint .....	3
Mus. 308—Form and Analysis.....	3
Mus. 315—Instrumentation, or }	3
Mus. 317—Conducting	
Mus. 401, 402—History of Music.....	6
Piano, Organ, Voice, or Orchestral Instrument.....	4
Total	38

# These courses are to be selected with the advisor's approval from the listings of the State of Tennessee certification requirements.

**2. Music Major Fields of Concentration. (Choose one field).****a. Applied Music (Recital Required).**

Music Major Music Core.....	38
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*Applied Music (Upper Division).....	4
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<b>Total</b>	<b>42</b>
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**b. Music Theory and Composition.**

Music Major Music Core.....	38
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‡Mus. 302, 303—Canon and Fugue.....	4
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‡Mus. 305, 306—Composition .....	4
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<b>Total</b>	<b>46</b>
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**c. Music History and Literature.**

Music Major Music Core.....	38
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Three of the following courses.....	9
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Mus. 411—Comparative Arts (3)	
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Mus. 412—Modern Music (3)	
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Mus. 413—The Opera and the Music Drama (3)	
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Mus. 414—Keyboard Instrument Literature (3)	
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<b>Total</b>	<b>47</b>
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**d. Church Music.**

Music Major Music Core.....	38
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Mus. 417—Choral Techniques .....	3
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Mus. 418, 419—Sacred Music I, II.....	6
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<b>Total</b>	<b>47</b>
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**BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREE  
WITH A MINOR IN MUSIC**

Bachelor of Arts or Bachelor of Science students who major in a field other than music may complete a minor in music by fulfilling the requirements as stated below in (1) a music minor core, and (2) a chosen music minor field of concentration.

**1. Music Minor Music Core.**

Mus. 111A, B; 112A, B—Music Theory I.....	8
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Mus. 119—Survey of Music Literature.....	3
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Mus. 401, 402—History of Music.....	6
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Piano, Voice, Organ, or Orchestral Instrument.....	4
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<b>Total</b>	<b>21</b>
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**2. Music Minor Fields of Concentration. (Choose one field).****a. Applied Music**

Music Minor Music Core.....	21
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*Applied Music at Upper Division.....	4
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<b>Total</b>	<b>25</b>
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\*These credits are to be acquired on the basis of one individual lesson per week during each of the four semesters. Credits transferred from other institutions will be evaluated on this basis.

‡Individual lessons with additional fees as stated for applied music courses.

**b. Music History and Literature.**

Music Minor Music Core.....21

Two of the following courses:

Mus. 411, 412, 413, 414..... 6

**Total** 27

**c. Church Music.**

Music Minor Music Core.....21

Mus. 317—Conducting ..... 3

Mus. 417—Choral Techniques ..... 3

Mus. 418 or 419—Sacred Music I or II..... 3

**Total** 30

**DESCRIPTION OF COURSES**

(For courses in Music Education, see listings in the Department of Music Education, School of Education.)

111A, 112A—Music Theory I. (3 credits each semester).

111B, 112B—Aural Music Theory I. (1 credit each semester).

These courses constitute a correlated study of the rudiments of music, including harmony, counterpoint, homophonic forms, sight-singing, and ear-training. 111A and 112A meet for three lecture periods weekly; 111B and 112B meet for two laboratory periods weekly.

119—Survey of Music Literature. (3).

An introduction to the great masterpieces. Prerequisites: Hist. 111, and Mus. 111A.

211A, 212A—Music Theory II. (3 credits each semester).

211B, 212B—Aural Music Theory II. (1 credit each semester).

Continuation of Music 112A and 112B.

301—Counterpoint. (3).

The writing of counterpoint in two and three parts. The vocal polyphony of the sixteenth century motet and the instrumental counterpoint of eighteenth century forms. Prerequisite: Mus. 112A, 112B.

302, 303—Canon and Fugue. (2 credits each semester).

A study of the fundamentals of canonic writing, including the analysis of important works by Bach. (Individual study with added fees as under Applied Music.) Prerequisite: Mus. 301.

305, 306—Composition. (2 credits each semester).

Compositions in the smaller forms and the sonata form, utilizing both vocal and instrumental mediums. Study of contemporary compositional techniques. Analysis of important standard and contemporary compositions. (Individual study with added fees as under Applied Music.) Prerequisite: Instructor's permission.

308—Form and Analysis. (3).

A study of the basic principles underlying the formal structure of music. Outstanding examples of the suite, sonata, and symphony are analyzed. Prerequisite: Mus. 112A, 112B.

**315, 316—Instrumentation. (3 credits each semester).**

A study of the compass, possibilities, and tonal characteristics of orchestral and band instruments. Arranging of various types of compositions for string, wood-wind, and brass ensembles. Piano, organ, and choral compositions arranged for full orchestra. Transcriptions of selected works for band. Prerequisite: Mus. 112A, 112B.

**317—Conducting and Score Reading. (3).**

Study of the fundamentals of conducting in both choral and instrumental fields. Individual practice in conducting with the opportunity for each student to conduct vocal and instrumental groups. Prerequisite: Mus. 112A, 112B.

**319—Music Appreciation. (3).**

An introduction to music through a study of its literature and history. Significant compositions are oriented to their proper social, cultural, economic, and political settings in order to bring about the most effective understanding and enjoyment of the music. Open without prerequisite to non-music majors of junior or senior standing.

**401, 402—History of Music. (3 credits each semester).**

A study of the development of the significant musical styles with special attention to the individual contributions of the major composers. Music representative of the various epochs heard through extensive use of phonograph recordings. Prerequisite: Instructor's permission.

**405, 406—Composition II. (2 credits each semester).**

Continuation of Music 306 with composition in the larger form. (Individual study with added fees as under Applied Music).

**411—Comparative Arts. (3).**

A study of cultural activities in their interrelation with each other, and with corresponding historic and economic events. Open without prerequisite to non-music majors of junior and senior standing.

**412—Modern Music. (3).**

A study of contemporary music and composers from Debussy to the present time. The works of Stravinsky, Bartok, Hindemith, and Schoenberg will be considered as well as the works of American contemporaries. Open without prerequisite to non-music majors of junior or senior standing.

**413—The Opera and the Music Drama. (3).**

A survey of the opera before Richard Wagner, a study of his music dramas and the operas of his contemporaries. The dramatic and musical significance of each phase of the development of the two forms. Open without prerequisite to non-music majors of junior or senior standing.

**414—Keyboard Instrument Literature. (3).**

A survey of the literature of the early keyboard instruments, the piano, and the organ emphasizing the styles of composition as well as the development of the instruments. The "sound-ideal" of each period. Open without prerequisite to non-music majors of junior or senior standing.

417—Choral Techniques. (3).

Organizing and developing accompanied and unaccompanied choral groups at all levels. Rehearsal procedures; materials; conducting. Prerequisite: Mus. 317.

418—Sacred Music I. (3).

Music in the history of the Protestant church; hymnology and the performance of hymns; church choir organization; planning the service; organ and choral repertory. Open without prerequisite to non-music majors of junior or senior standing.

419—Sacred Music II. (3).

The development and present significance of Roman, Lutheran, and Anglican liturgical music; its relationship to the worship services of non-liturgical denominations. Open without prerequisite to non-music majors of junior or senior standing.

**APPLIED MUSIC (Individual Lessons)**

Applied Music is offered at three levels: (1) Preparatory, (2) Lower Division, and (3) Upper Division. Lessons are given by members of the university faculty and by special instructors. Practice facilities are provided without charge but there are additional fees for the individual lessons.

**FEES:** See "General Information, Fees and Expenses," page 39. Fees are paid to the university at the Bursar's Office.

**REGISTRATION:** Students will register for individual lessons in the same manner and at the same time as they register for other courses. If there is any question about the credit or the course number, check with the Department of Music before registration.

**CREDITS AND GRADES:** One semester hour credit will be granted for one thirty-minute lesson weekly. Two semester hours credit will be granted for two thirty-minute lessons weekly. Practice hours will be assigned by the instructor to meet the needs of the student. Grades are awarded on the same basis and have the same significance as in other subjects.

**EXAMINATIONS:** For an examination in Applied Music, each student will prepare and perform for members of the faculty of the Department of Music suitable musical selections and technical exercises of a grade of difficulty appropriate to his standing. Examinations will be held in the Music Hall on days set aside for this purpose near the end of each semester. Credit for the course will not be awarded to any student who fails to take the examination.

**Preparatory Applied Music**

Regardless of his initial degree of advancement, any student of the university may register for individual lessons at the Preparatory level except in organ. Organ students must have the ability to play the piano before beginning organ instruction.

050—Preparatory Piano. Individual Lessons. (1 or 2 credits each semester).

051—Preparatory Organ. Individual Lessons. (1 or 2 credits each semester).

052—Preparatory Stringed Instrument. Individual Lessons. (1 or 2 credits each semester).

054—Preparatory Woodwind Instrument. Individual Lessons. (1 or 2 credits each semester).

056—Preparatory Brass Instrument. Individual Lessons. (1 or 2 credits each semester).

059—Preparatory Voice. Individual Lessons. (1 or 2 credits each semester).

#### **Lower Division Applied Music**

This level includes the study normally carried out during the freshman and sophomore years. It is expected that the piano or instrumental student at this level, prior to university entrance, will have had several years of intensive study so that he has a secure, reliable, and well-grounded technique on his instrument. Organ students may begin at this level provided that they play the piano well and have reasonable ability in sight-reading. Requirements for admission to voice study at this level can best be determined by the instructor for the individual student.

Students who fall short in meeting requirements for admission to the Lower Division courses will be advised to register for Preparatory courses until such deficiency is eliminated.

It is expected that course numbers will be repeated for each semester of study.

150—Piano. Individual Lessons. (1 or 2 credits each semester).

151—Organ. Individual Lessons. (1 or 2 credits each semester).

152—Stringed Instrument. Individual Lessons. (1 or 2 credits each semester).

154—Woodwind Instrument. Individual Lessons. (1 or 2 credits each semester).

156—Brass Instrument. Individual Lessons. (1 or 2 credits each semester).

159—Voice. Individual Lessons. (1 or 2 credits each semester).

#### **Upper Division Applied Music**

Promotion to the Upper Division does not follow automatically after the completion of four semesters of Lower Division Applied Music, but is made only on the recommendation of the instructor of the student concerned if that student's proficiency as a performer bears promise of future artistic and professional qualities as a soloist. It is at this level that the student normally begins preparation for a recital.

350—Piano. Individual Lessons. (1 or 2 credits each semester).

351—Organ. Individual Lessons. (1 or 2 credits each semester).

352—Stringed Instrument. Individual Lessons. (1 or 2 credits each semester).

354—Woodwind Instrument. Individual Lessons. (1 or 2 credits each semester).

356—Brass Instrument. Individual Lessons. (1 or 2 credits each semester).

359—Voice. Individual Lessons. (1 or 2 credits each semester).

### **SMALL ENSEMBLES AND CHAMBER MUSIC**

Advanced students are encouraged (and for certain degree plans are required) to participate in these groups. Each course meets for three laboratory hours each week and carries one semester hour credit. Courses may be repeated with the advisor's approval.

360—Piano Ensemble. (1 credit each semester).

362—String Ensemble. (1 credit each semester).

364—Woodwind Ensemble. (1 credit each semester).

366—Brass Ensemble. (1 credit each semester).

367—Opera Soloists. (1 credit each semester).

368—Opera Workshop. (1 credit each semester).

369—Madrigal Group. (1 credit each semester).

### **LARGE MUSICAL ORGANIZATIONS**

Large instrumental and choral organizations are maintained on a high artistic and musical plane and offer numerous opportunities for all interested and qualified students of the university to participate. Students register for these groups in the same manner as for other courses. All groups meet for three laboratory hours each week and carry one semester hour credit.

172—Music Education Orchestra. (See School of Education section of the catalog for course description).

174—Music Education Band. (See School of Education section of the catalog for the course description).

177—University Glee Club. (1 credit each semester).

178—Men's Glee Club. (1 credit each semester).

179—Women's Glee Club. (1 credit each semester).

373—University Concert Orchestra. (1 credit each semester).

175, 375—University Band. (1 credit each semester).

377—University Chorale. (1 credit each semester).

**DEPARTMENT OF PHILOSOPHY****Mr. Barton, Chairman**

The following courses are proposed to arouse an awareness of the major problems of philosophy and encourage the student to think critically about them. Readings from the great philosophers will also be encouraged.

A minor in Philosophy consists of at least 18 semester hours credit in courses in this department. Included in these 18 hours must be Philosophy 211 or 212 and 6 hours in courses numbered above 299.

**Description of Courses****211—Introduction to Philosophy. (3).**

A study of the great problems arising in the reflection upon the knowledge and nature of the world and human conduct in it. A brief study of the basic modes of thought will also be made. Regularly open to freshmen.

**212—Patterns of Conduct. (3).**

A survey of the classical ethical theories with emphasis on those principles which can lead to an intelligent and reliable judgment of conduct and character. Regularly open to freshmen.

**311—History of Philosophy. (3).**

A study of the great systems of thought of Ancient and Medieval Philosophy. There will also be select readings from the great philosophers. Offered alternate years.

**312—History of Philosophy. (3).**

A study of the great modern philosophers from Descartes to the Existentialists. Select readings from the important works will be encouraged. Offered alternate years.

**313—Philosophy of Religion. (3).**

A study of the contribution of philosophy to the basic issues of religion; a recognition of the principle which makes religion valid throughout all its diverse forms and in the face of advancing scientific knowledge. Offered alternate years.

**314—History of Living Religions. (3).**

A historical and comparative survey of the contemporary non-Biblical religions of the world, with readings in the important literature—Primitivism, Hinduism, Buddhism, Confucianism, Taoism, Islam, etc. Offered alternate years.

**411—Problems of Logical Theory. (3).**

A study of the principles and mode of correct thinking. The treatment of the modern writers concerning the form and meaning of logical sentences will be noticed. Prerequisite: One semester course in philosophy or permission of the instructor. Offered alternate years.

**412—Theory of Knowledge. (3).**

A critical study of the basic problems of epistemology, with readings in the important philosophers. Prerequisite: One course in philosophy or permission of the instructor. Offered alternate years.

**413—Metaphysics. (3).**

An analysis of the basic metaphysical concepts and a critical study of old and new theories of the nature of being. Prerequisite: One se-

mester course in philosophy or the permission of the instructor. Offered alternate years.

414—Contemporary Philosophy. (3).

The major concepts and problems of modern philosophy, including Existentialism and Logical Positivism. Prerequisite: One semester course in philosophy or permission of the instructor. Offered alternate years.

#### **GRADUATE COURSES**

Courses preceded by "G" are described above.

G411—Problems of Logical Theory. (3).

G412—Theory of Knowledge. (3).

G413—Metaphysics. (3).

G414—Contemporary Philosophy. (3).

**DEPARTMENT OF PHYSICAL SCIENCES****Mr. Fox, Chairman**

**Mr. Beasley, Mr. Claypool, Mr. Edwards, Mr. Estes, Mr. Hayes,  
Mr. Holmes, Mr. Ijams, Mr. Nemitz, Mr. Newsom, Mr. Raridon,  
Mr. Schirmer, Mr. Schwaiger, Mr. Tanner**

**CHEMISTRY**

Students majoring in Chemistry must select 40 semester hours of credit from the chemistry courses listed in this catalogue, with at least 24 semester hours of upper division level courses.

Chemistry 111-12 and chemistry 221-22 are prerequisites to a major in chemistry which includes chemistry 321-22, chemistry 411-12, chemistry 421-22 and chemistry 491; mathematics through Math. 312, German 111-12, German 211-22 and Physics 251-52. (Physics 211-12 may be substituted for Physics 251-52 upon approval of the chairman of the department.)

The courses required for a major in Chemistry are:

1st year—Chemistry 111, 112. Mathematics 121 or 141 is prerequisite or corequisite for Chem. 111.

2nd year—Chemistry 221, 222, which is a prerequisite to all advanced courses except Chemistry 321, 322; Math. 142 or 311, 312; Physics 251, 252.

3rd year—Chemistry 321, 322; or Chemistry 411, 412; or Chemistry 421, 422; Mathematics 311, 312 are prerequisites or corequisites if Physical Chemistry (411, 412) is elected.

4th year—Chemistry 411, 412; or Chemistry 421, 422, or Chemistry 491. Chemistry 411, 412 is a prerequisite to graduate study in chemistry. Other chemistry courses listed in this catalogue may be used as electives.

A minor in chemistry may be secured by completing 20 semester hours as follows:

Chemistry 111, 112.....	8 hours
Chemistry 321, 322.....	8 hours

An additional 4 hours from courses above the 299 level must be taken.

**PHYSICAL SCIENCE**

A student may major in physical sciences by acquiring 32 semester hours in chemistry and physics. Chemistry 111, 112 and Physics 211, 212 or Physics 251, 252 are required of physical science majors. At least 12 additional hours must be taken in courses numbered above 299.

A student majoring in another field may attain a minor in physical sciences by completing 20 semester hours of courses in the physical sciences; this must include 8 semester hours selected from courses numbered above 299.

It is suggested that those who plan to teach the sciences in secondary schools major in the Physical Sciences. Students who plan to become high school science teachers should study carefully the state's certification law for science teachers.

**PHYSICS**

Students majoring in Physics must select 32 semester hours of credit from the physics courses listed in this catalogue. Of this, a minimum of 24 semester hours of physics must consist of courses numbered 300 or above. Physics 211, 212 or Physics 251, 252 is a prerequisite of all courses numbered above 300.

The courses required for a major in physics are:

Physics 251, 252 (Physics 211, 212 is acceptable but not recommended for majors.).....10 hours

At least 24 hours of physics from the following courses:

Physics 311, 312.....8 hours

Physics 321, 322.....8 hours

Physics 411, 412.....8 hours

Physics 421, 422.....8 hours

In addition to these requirements in Physics, the following courses are also required:

Chemistry 111, 112

Mathematics 311, 312

Six additional semester hours of mathematics in courses numbered above 312. Differential equations is highly recommended.

A minor in Physics may be secured by completing a minimum of twenty semester hours as follows:

Physics 251, 252 (Physics 211, 212 is acceptable but not recommended for minors.)

An additional 10 or 12 semester hours in physics from courses numbered 300 or above, exclusive of Physics 401, 402.

**Description of Courses****Chemistry****100s—Chemistry for Nurses. (4).**

The aim of this course is to give sufficient applications of chemistry in health and disease to meet the needs of young women who enter the profession of nursing. The course is divided into three parts. About one-half of the semester is allocated to general chemistry, about one-fourth of the semester to organic chemistry, and one-fourth to biochemistry. Three hours lecture and two hours laboratory per week.

**111, 112—General Inorganic Chemistry. (4).**

This course is open to all freshmen; it is a prerequisite for all courses in chemistry except Chemistry 100s. This course is a comprehensive study of the basic laws and principles of general chemistry. The important metals and nonmetals are covered. Conference periods are arranged for those who have not had high school chemistry and for others who are deficient. The laboratory for Chemistry 112 is elementary qualitative analysis. Mathematics 121 or 141 is a prerequisite or a corequisite for Chemistry 111. Two hours lecture and four hours laboratory per week.

**200—Elementary Quantitative Analysis for Biological Sciences. (4).**

This course is designed for students in the biological sciences. Care and use of the analytical balance is stressed together with the theory and practice of volumetric analysis and colorimetry. The course does not count towards a chemistry major. Prerequisites: Chemistry 111, 112. Two hours lecture and four hours laboratory per week.

**201—Elementary Physical Chemistry. (4).**

A brief course in physical chemistry, primarily for students in the biological sciences. Designed to prepare the student for organic chemistry and the physical concepts of biochemistry. May be elected by students not majoring in chemistry. May be taken by chemistry majors for elective credit but not applied toward a major. Prerequisites: Chemistry 111-112 and Mathematics 142. Three hours lecture and two hours laboratory per week.

**221—Quantitative Analysis—Gravimetric. (4).**

A course in the theory of qualitative and gravimetric analysis. Fundamental principles and techniques in the gravimetric determination of the composition of inorganic compounds and ores are stressed. Special attention is given to the theory and calculations involved. Prerequisites: Chemistry 112 and Mathematics 141 or 142. Two hours lecture and four hours laboratory per week.

**222—Quantitative Analysis—Volumetric. (4).**

The theory and practice of preparing and using standard solutions in volumetric determinations of certain unknowns, in areas of acidimetry and alkalimetry, oxidation and reduction, iodimetry and complex-ion formations. Special attention is given to the plotting of titration curves, and calculations relating to volumetric analysis. Prerequisites: Chemistry 221 and Mathematics 142 or 311. Two hours lecture and four hours laboratory per week.

**321, 322—General Organic Chemistry. (4).**

A systematic study of the preparations and reactions of aliphatic and aromatic compounds and their interpretation by modern theories of Organic Chemistry. Prerequisites: Chemistry 111, 112. Chemistry 201 or 221 is recommended but not required. Three lecture hours and four laboratory hours per week.

**331—Chemistry of Colloids. (3).**

This course deals with the fundamental principles of colloid chemistry. It is designed to give background to students who plan to enter the biological and/or chemical professions and related fields. Emphasis will be placed upon the principles of colloid chemistry, such as particle size, liquid surfaces, absorption, dispersion, emulsification, etc., and their applications. Prerequisites: Chemistry 221, 222, 321, 322. One hour lecture and four hours laboratory per week.

**401, 402—Biochemistry. (4).**

This course covers the fundamental physical and chemical mechanisms involved in the vital processes of living organisms. Prerequisites: Chemistry 321, 322. Two hours lecture and four hours laboratory per week.

**411, 412—Physical Chemistry. (4).**

This course deals with important theories, laws, and subject matter of physical chemistry. Prerequisites: Chemistry 221, 222, 321, 322, Physics 211, 212 or Physics 251, 252. Mathematics 121 or 141, and a good knowledge of logarithms. Mathematics 311, 312 are desirable. Three hours lecture and two hours laboratory per week.

**421—Advanced Inorganic Chemistry. (3).**

A further and more advanced study of the fundamentals of inorganic chemistry. A systematic study of the elements from the stand-

point of the periodic law. Emphasis will be given to the rare-earth elements. Prerequisites: Chemistry 222 and Chemistry 322. Three hours lecture per week.

**422—Instrumental Analysis. (4).**

Applications of recent developments in the field of instrumental analysis. The theory and use of colorimetric, spectrophotometric and electrometric methods of chemical analysis. Experience will be gained in the use of the Beckman DU spectrophotometer and other related colorimetric and spectrometric instruments. Prerequisite: Chemistry 421. Two hours lecture and four hours laboratory per week.

**431—Applications of Colloid Chemistry. (3).**

This course is a continuation of Chemistry 331 in which the principles of colloid chemistry are applied in the study of specific fields of concentration, such as cellulose, wood and wood chemicals, cotton products, foods, cosmetics and drugs. This course is designed to give the student specific instruction in the field of chemistry into which he plans to enter as a profession. One hour lecture and four hours laboratory per week. Prerequisite: Chemistry 331.

**451, 452—Organic Preparations. (3).**

The preparation and properties of organic compounds. Introduction to research methods. Prerequisites: Chemistry 221, 222, 321, 322. One hour lecture and four hours laboratory per week.

**491—Seminar. (1).**

Special reports and study of current chemical literature. Required of all majors.

**Description of Courses**

**PHYSICS**

**111, 112—Introductory Physics. (3).**

The purpose of the course is to enable the student to acquire some understanding of science, particularly of the nature of physics, through a thorough study of certain basic principles. It is designed for those who do not expect to major in science or who have not had any previous physics in high school. It does not satisfy the requirement for pre-medical, pre-dental, pre-pharmacy, or pre-engineering students. Two hours lecture and two hours laboratory per week.

**211, 212—General Physics. (4).**

This is the standard college physics course required of all pre-medical, pre-dental, and pre-pharmacy students. The first semester covers the topics of mechanics, heat and sound. The second semester covers the topics of magnetism, electricity, light, and modern physics. Prerequisite: Mathematics 122, or 142. Three hours lecture and two hours laboratory per week.

**251, 252—Physics for Science and Engineering. (5).**

A course designed primarily for students intending to major in physics, chemistry, or mathematics. Required of all students planning to enter engineering. Recommended for students planning to teach physics in the secondary schools. Corequisite: Mathematics 311, 312. Four hours of lecture and two hours of laboratory per week.

**270—Acoustics of Musical Sounds. (3).**

A one semester course designed primarily for majors in music but of general interest as an elective. Prerequisite: Mathematics 101, 121, or 141.

**311, 312—Mechanics. (4).**

An advanced course in classical mechanics covering statics and dynamics of particles, rigid bodies, and fluid flow. Work, energy, momentum, force fields, and harmonic motion, are also included. This course is recommended as good preparation for other advanced physics courses. Prerequisites: Physics 212 or 252, and Mathematics 312. Three hours lecture and two hours laboratory per week.

**321, 322—Electricity and Magnetism. (4).**

An advanced course in electricity and magnetism covering topics such as the following: magnetostatics, electrostatics, d.c. and a.c. circuits, electromotive force, thermal effects, electronic theory, and field theory. Prerequisites: Physics 212 or 252, and Mathematics 312. Three hours lecture and two hours laboratory per week.

**401, 402—Continental Classroom, Physics for the Atomic Age. (3).**

A course in physics for the atomic age offered nationally over television and televised locally through WMCT. Particularly designed for teachers of physics and for adults unable to enroll in regular college classes. The course will not meet any pre-professional requirements in physics but can be taken for elective credit. Monthly on-campus meetings supplement the televised program. A course in college mathematics is recommended for all students enrolled for credit. A previous course in college physics is also highly recommended.

**411, 412—Atomic and Nuclear Physics. (4).**

Includes a study of atomic structure and behavior, the interaction of atomic particles, nuclear structure, and subatomic particles, radiation and its properties and origin. Also some consideration of applications of recent developments in physics. Prerequisites: Physics 212 or 252, and Mathematics 312. Three hours lecture and two hours laboratory per week.

**421, 422—Optics. (4).**

Covers both geometrical and physical optics including such topics as: thin lenses, spherical mirrors, lens aberrations, optical instruments, waves, interference, diffraction, absorption, transmission, and scattering. Prerequisites: Physics 212 or 252, and Mathematics 312. Three hours lecture and two hours laboratory per week.

**GRADUATE COURSES**

Note: Courses preceded by "G" are described above.

**G401—Biochemistry. (4).****G402—Biochemistry. (4).****G411—Physical Chemistry. (4).****G412—Physical Chemistry. (4).****G421—Advanced Inorganic Chemistry. (3).****G422—Instrumental Analysis. (4).****G431—Applications of Colloid Chemistry. (3).****G451—Organic Preparations. (3).****G452—Organic Preparations. (3).****511—Advanced Inorganic Chemistry. (3).****512—Advanced Inorganic Chemistry. (3).****521—Principles of Analytical Chemistry. (3).****531—Intermediate Organic Chemistry. (3).****532—Organic Qualitative Analysis. (4).****541—Advanced Physical Chemistry. (3).****551—Radio-Chemistry. (3).****552—Radio-Chemistry. (3).****561—The Chemistry of Colloids. (3).****562—The Chemistry of Colloids. (3).****593-96—Chemical Research, Thesis and Seminar. (3 or 6).**

**DEPARTMENT OF PSYCHOLOGY****Mr. McCann, Chairman****Mr. Addington, Mr. Andersen, Miss Cohen, Mr. Horn, Mr. Porter,  
Miss Sprunt**

The undergraduate program in psychology should provide a meaningful background for the many activities and vocations in which human relations are important. It is also designed to develop an understanding of human behavior and experience which will serve as a basic foundation for those who plan to continue graduate work in the field of psychology. The introductory courses should prove beneficial to the student who seeks to become acquainted with the general nature of psychology, its methods, and the appropriate application of psychological principles. The student should understand that to be considered a professional psychologist it is necessary to pursue graduate work in the field of psychology.

Required for the major: 24 hours in psychology, including 12 hours in the Upper Division. Required courses for the major include Psychology 111, 112, 215, and 315.

Required for the minor: 18 hours in psychology, including 6 hours in the Upper Division.

Psychology 111 and 112 are prerequisite for all other courses in psychology. Students may take these courses in either order.

**DESCRIPTION OF COURSES**

**Psychology 111—General Psychology I. (3).**

An introduction to the methods and scope of contemporary psychology. Facts and principles of human behavior are considered in their relationship to life adjustments. Areas covered include individual differences, social processes, aptitudes and vocational adjustment, intelligence, and the nature and development of personality.

**112—General Psychology II. (3).**

An introduction to psychology as a basic science emphasizing research findings and theoretical interpretations in the investigation of human and animal behavior. Areas covered include sensation and perception, motivation and emotion, learning and retention, and physiological mechanisms.

**212—Psychology in Business and Industry. (3).**

Attitudes, morale, skill, motivation, fatigue, and other psychological factors important in employer and employee relations in business and industry.

**213—Social Psychology. (3).**

A study of the influences of group behavior and cultural traditions upon the individual's vocational, domestic, and social adjustments. The psychological factors in the major problems of today.

**214—Psychology of Personal Adjustment. (3).**

Dynamic principles of personal and social adjustment with consideration of typical reactions to frustration and conflict as these relate to various phases of life.

**215—Quantitative Methods. (3).**

Elementary statistics with primary emphasis on computation. Measures of central tendency and variability with introduction to tests of significance and correlation.

**311—Psychology of Personality. (3).**

The development, organization, and assessment of the normal personality with an introduction to the nature of personality theory.

**312—Psychology of Behavior Disorders. (3).**

A survey of basic concepts of psychopathology with emphasis on the development of behavior deviations; description of various neurotic and psychotic reactions; an introduction to methods of psychotherapy.

**313—Great Contributions to Psychology. (3).**

Binet's studies of intelligence; Galton's studies of individual differences; Pavlov's experiments in conditioning; Thorndike's animal experiments; Watson's studies of infant behavior; Cannon's studies of emotional behavior and others.

**314—Learning and Behavior Modification. (3).**

Critical examination of dominant concepts and principles involved in a general theory of behavior with emphasis on the role of habit formation and acquisition of motives.

**315—Experimental Psychology. (4).**

Methods and techniques of controlled experimentation in the areas of motivation, learning, and perception. Emphasis on and experience with theoretically oriented research. Three hours lecture; two hours lab. Prerequisite: Psychology 215.

**411—History of Psychology. (3).**

A general orientation course covering the historical antecedents and systems of psychology. Prerequisite: 9 semester hours in psychology.

**412—Physiological Psychology. (3).**

A study of the physiological functions involved in behavior and experience. Surveys the physiology of the sense organs, nervous system and response mechanisms. Prerequisite: 9 semester hours in psychology.

**413—Advanced Quantitative Methods. (3).**

Follow-up to Psychology 215, Quantitative Methods, with emphasis on standard errors of all commonly used statistics as well as the analysis of variance, Chi Square, and non-parametric tests. Prerequisite: Psychology 215.

**414—Psychology of Exceptional Children. (3).**

Home and school problems of handicapped, retarded, emotionally unstable, precocious, or gifted children. Prerequisite: 9 semester hours in psychology.

**416—Introduction to Clinical Psychology. (3).**

Survey of the field of clinical psychology and its relationship to other disciplines. Prerequisite: 12 semester hours in psychology including Psychology 311 or 312.

**417—Psychological Appraisal. (3).**

Introduction to the development and application of psychological tests. Survey of instruments and techniques currently used in the psychological appraisal of the individual. Prerequisite: 12 semester hours in psychology.

**GRADUATE COURSES**

Courses preceded by "G" are described above:

**G411—History of Psychology. (3).****G412—Physiological Psychology. (3).****G413—Advanced Quantitative Methods. (3).****G414—Psychology of Exceptional Children. (3).****G416—Introduction to Clinical Psychology. (3).****G417—Psychological Appraisal. (3).****501—Theories of Learning. (3).****502—Theories of Personality. (3).****503—Psychometrics. (3).****511—Contemporary Approaches to Psychotherapy. (3).****521—Measurements of Intelligence. (3).****522—Projective Techniques. (3).****591—(-) Special Problems.**

(A) Diagnostic Testing. (1 to 3).

(B) Personal Counseling. (1 to 3).

(C) Research. (1 to 3).

**593—Thesis. (3 to 6).**

**DEPARTMENT OF SOCIAL SCIENCES**

**Mr. R. W. Johnson, Chairman**

**Mrs. Almy, Mr. Barber, Mr. Corbet, Mr. Frye, Mr. Gordon, Mr. Grundy,  
Mr. Guyton, Mr. Hart, Mr. Matthews, Mr. Resneck, Mr. Sisco, Mr. Sobol,  
Mr. Vikor**

**DEPARTMENTAL REQUIREMENTS**

1. The Army Map Service of Washington, D.C. has chosen the library at Memphis State University as a depository for some five thousand of its maps. These maps embrace all phases of social science work, and all students of the department will be directed to use them frequently.

2. Many of the courses in the department of social sciences are part of a six-hour sequence of a year's work in coherent subject matter. Students are urged to take sequent courses in order of listing and to complete the sequence before graduation. They are required to complete at least one sequence of courses in each academic year in their major subject.

3. All students taking 300 and 400 courses in the department are required to demonstrate their ability to do work satisfactory for graduation. This requirement may be met in junior and senior courses by the satisfactory completion of a written paper or other types of individual work of an equal nature.

4. Courses numbered below 199 are the only courses in the department open to freshmen.

**MAJORS AND MINORS**

A major in economics is 24 hours, and a minor is 18 hours. The major consists of 211-2, 421-2, and 12 additional hours in the upper division. The minor consists of 211-2, 421 or 422, and 9 additional hours in the upper division. For either major or minor, the student also must complete Geography 121-2. **Prerequisites:** Economics 211 is prerequisite to 212, and 212 is prerequisite normally to all 300 and 400 courses. Any exception must be cleared by permission from the chairman of the department.

A major in geography is 24 hours, 12 of which must be in the upper division. It includes 121-2, 231-2 or 235-6, and 331-2. A student majoring in geography also must complete, as a part of his minor or as an elective, 6 hours in economics, 6 hours in history, and 6 hours in sociology.

A minor in geography is 18 hours. For all students, other than those majoring in physical sciences, it includes the first three years of work required for a major in geography. Students majoring in the physical sciences should take 411-2 instead of 331-2.

A major in political science is 24 hours, and a minor is 18 hours. The major consists of 211-2 and 18 additional hours in the upper division. The minor consists of 211-2 and 12 additional hours in the upper division. For either major or minor, the student also must complete Geography 121-2 or 235-6.

A major in sociology is 24 hours, and a minor is 18 hours. The major includes 211-2, 311, 322 or 412, and 422. The minor includes 211-2. For either major or minor, the student also must complete Geography 121-2. Sociology 211 is a prerequisite for 212, and 211-2 are prerequisites for 311, 321, and 322. For 312, 411, 412, 421, 422, 441, and 442, a prerequisite is 6 hours of sociology or permission of the chairman of the department.

**Description of Courses**

**ECONOMICS**

**211-2—Principles of Economics I and II. (3 credits each semester).**

An introduction to economic concepts and terminology and to the fundamental principles underlying the production, exchange, distribution, and consumption of income and wealth, together with the application of those principles to major contemporary problems. Attention is given to both the neo-classical and the national income methods of economic analysis.

**221—Economics for Consumers. (3).**

A popular study of consumer interests, problems, and movements in modern economic society.

**311—Agricultural Economics. (3).**

A study of the function and position of agriculture in the economic system, with special attention to the impact of agricultural problems and policies on life in the Mississippi Valley.

**312—Labor Economics. (3).**

A study of the role of labor in the economic system, with special attention to such problems as compensation, mobility, unemployment, unionism, collective bargaining, social security, and public policy.

**321—Economics of Money and Banking. (3).**

An analytical and historical study of the institutions of money, credit, and banking from the standpoint of the general public.

**322—Economics of Public Finance. (3).**

An analytical and historical study of government expenditures, revenues, and fiscal policy: their role in the American economic system.

**331—International Economics. (3).**

A study of the principles and problems of international economic relations: trade, finance, agreements, co-operation.

**332—Economic Problems. (3).**

An analytical and critical study of the major economic problems of our times with special attention to those of current public interest and significance.

**341—Intermediate Economic Theory. (3).**

An advanced study of economic theory and analysis in relation to current developments and applications.

**421—Development of Economic Thought to 1848. (3).**

An analytical and critical study of the development of economic thought from ancient times to 1848.

**422—Development of Economic Thought Since 1848. (3).**

An analytical and critical study of the development of economic thought from 1848 to the present time.

**431—Economics of National Security. (3).**

A study of the economic problems of war and defense and other related aspects of national security, including production, consumption, finance, and international cooperation.

**432—Economic Fluctuations. (3).**

A descriptive and analytical study of the nature, the causes, and the control of business cycles and other fluctuations in economic activity.

**GEOGRAPHY****111-2—Physical Geography. (3 credits each semester).**

A study of the major elements of the natural environment as a foundation for better understanding the science of the earth. Courses include both laboratory and textbook assignments, and may be elected as a year of physical science by students qualifying for a B.A. or a B.S. degree. A one-day field trip is required for each course.

**121—Economic Geography: Major Basic Resources. (3).**

A study of man's development and use of such major basic resources as land, water, forests, and minerals.

**122—Economic Geography: Industrial and Commercial. (3).**

An introductory study of manufacturing, trade, and transportation.

**231—Latin America. (3).**

A geographic study of Mexico, Central America, the West Indies, and the continent of South America.

**232—Africa. (3).**

A geographic analysis of Africa as a foundation for a better understanding of how man occupies and uses the land in the various regions of the continent.

**235-6—Regional Geography of the World. (3 credits each semester).**

A survey of regional geography in selected areas throughout the world with emphasis on the people and their activities as related to the environmental setting.

**322—Historical Geography. (3).**

A study of the geography of selected areas of the United States for sequent periods of their occupancy by the white man.

**331-2—Anglo-America. (3 credits each semester).**

An analytical study of the cultural-physical complex in each of the major regions of the United States, Canada, and Alaska. Interrelationships among regions are stressed.

**341—Cartography. (3).**

An introductory course in (1) map projections, grids, scales, symbols, and (2) map drafting for geographical uses. Course includes both lectures and laboratory work.

**342—Map Intelligence. (3).**

An intensive investigation of charts, graphs, maps, landscape and aerial photographs as geographical tools. Course includes lectures, and laboratory work in Johnson Hall Map Library, which is a depository of the U. S. Army Map Service for all map and materials it provides.

**343—Photogrammetry. (3).**

A survey course in photogrammetry dealing with the art and science of obtaining geographic information from landscape surveys by means of photography.

**351—Principles of Conservation. (3).**

Current problems and responsibilities relating to the conservation of soil, minerals, forests, water, wild life, and the natural beauty of the earth. A one-day field trip is required.

**\*411—Earth Science I. The Earth. (3).**

An analytical study of land forms, their changes, and their uses to man.

**\*412—Earth Science II. The Atmosphere. (3).**

An analytical study of climatic factors, climatic regions, and climatic effects on man.

**\*413—Earth Science III. The Soil. (3).**

An analytical study of soils to include their physical, chemical, and biological qualities, and their classes, uses, and measures of conservation.

**\*414—Earth Science IV. The Oceans. (3).**

An analytical study of the oceans to include their physical, chemical, and biological qualities; their movements, resources, climatic influences, and their importance for transportation.

**425—Political Geography. (3).**

A course dealing with the major powers of the world and strategic areas and problems of international concern.

**431—Western Europe. (3).**

A geographic analysis of the major regions of Western Europe. Study is limited in the main to those countries inhabited by people speaking the Romance and Germanic languages.

**432—The Soviet Realm. (3).**

A regional analysis of the Soviet Union and the Slavic speaking countries of Eastern Europe.

**433—Asia South of the Soviet Realm. (3).**

A consideration of the significance of regional differences in Japan, China, and India, and a brief survey of the remaining areas.

**436—The South. (3).**

A specialized study of selected regions in the South with emphasis on changes and trends in the cultural-physical complex.

**437—Tennessee. (3 or 4).**

A comparison of the political, physical, economic, and human-use regions of the state. A survey of land utilization in the state is made by human-use regions. A minimum of six days of field work is required for 4 hours credit.

**441—Field Courses in Geography. (3 or 6).**

\*Courses 411 to 414, inclusive, are designed so as to be especially valuable to students interested in the physical sciences as well as in the social sciences. Assignments include field trips in addition to textbook and laboratory work.

**441A—Local Field Study. (3).**

This course includes: (1) a brief study of field planning and techniques, and (2) an application of these phenomena in reconnaissance field work and in the detailed mapping of physical and cultural features. Three half-day trips are required. Prerequisite: consent of instructor.

**441B—Regional Field Study. (6).**

A comparative study of at least four selected regions in the United States requiring the minimum of half a semester's work. The course is divided into three parts. The first is devoted to a library study of the regions to be traversed, the second requires a minimum of 16 days of study in the regions, and the third includes oral and written reports on parts one and two. Prerequisite: consent of instructor.

**451—Urban Land Planning and Residential Housing (3).**

A study in urban land planning and residential housing with emphasis on urban land values, subdivision development, and the various phases of home building.

**452—Geography and World Power. (3).**

An advanced course dealing with the potential strength of the U. S. as a world power based on its natural resources (spatial, agricultural, energy, and material), capital resources, and human resources.

**455—Workshop in Conservation. (3 or 6)**

A summer course for students interested in resource problems in Tennessee, in remedial measures applied to specific resource abuses in local communities, and in increasing inspiration and enthusiasm through association with trained resource workers.

### **POLITICAL SCIENCE**

**221—National Government. (3).**

A survey of the principles, structure, processes, and functions of the American national government.

**222—State and Local Government. (3).**

A survey of the structure, functions, and problems of state and local governments, with special emphasis placed on Tennessee.

**321-2—Comparative Government. (3 credits each semester).**

A survey and comparison of political institutions in selected foreign countries.

**331—International Politics. (3).**

An analysis of the theory and practice of international political relations.

**332—International Law and Organization. (3).**

A study of legal and organizational controls of international conflict.

**351—Contemporary Political Thought. (3).**

A detailed study of the philosophy and practice of the four major "isms": Communism, Facism, Capitalism, and Socialism.

**411—American Foreign Policy. (3).**

An analysis of American foreign policy, with emphasis on the factors involved in developing and implementing policy.

**414—Constitutional Law. (3).**

An analysis of the American Constitution through the use of leading cases in constitutional law.

**425—Political Geography. (3).**

A course dealing with the major powers of the world and strategic areas and problems of international concern.

**SOCIOLOGY**

**211—Society and Man. (3).**

Society and group interaction, culture and personality, social structure, institutions and social change.

**212—The Modern Community. (3).**

The community and its provisions for health, education, safety, and welfare, recent tendencies toward control and planning.

**311—Social Organization. (3).**

Structures of social units, techniques and tools utilized in small group research, collection and interpretation of sociometric data.

**312—The Family. (3).**

The family in social change, the family and personality, family organization, family disorganization and reorganization, the future of the family.

**321—Social Control. (3).**

The problem of social control, internalizing social control, social structures and institutions in the maintenance of order, improving social control.

**322—Social Attitudes. (3).**

Natural history of individual and popular attitudes, attitudes and wishes, attitudes as social forces.

**411—Criminology. (3).**

Facts about ordinary crime, crime as a business, affiliated problems, trends in punishment, treatment of offenders, control and prevention.

**412—Collective Behavior. (3).**

The nature and emergence of collective behavior, the crowd, the diffuse collectivity, the social movement, social consequences of collective behavior.

**421—Contemporary Social Problems. (3).**

Meaning and scope of social disorganization, personal crises, family discord, group tensions, theories and practices in public policy.

**422—Modern Sociological Theories. (3).**

European contributions, American developments, recent trends and influences in sociological theory and research.

**GRADUATE COURSES AND FIELDS OF STUDY IN GEOGRAPHY**

Note: Courses preceded by "G" are described above.

**Physical Geography**

**G411—Earth Science I. The Earth. (3).**

**G412—Earth Science II. The Atmosphere. (3).**

**G413—Earth Science III. The Soil. (3).**

**G414—Earth Science IV. The Oceans. (3).**

**511—Geography as an Earth Science. (3).**

**Economic, Historical, and Political Geography****G425—Political Geography. (3).**

521—Economic Geography: Agricultural. (3).

522—Economic Geography: Industrial and Commercial. (3).

524—Population Geography. (3).

**Regional Geography**

G431—Western Europe. (3).

G432—The Soviet Realm. (3).

G433—Asia South of the Soviet Realm. (3).

G436—The South. (3).

G437—Tennessee. (3).

531—Seminar in Regional Geography. (3).

**Cartographic and Field Geography****G441—Field Geography**

A. Introduction to Local Field Geography. (3).

B. Regional Field Study. (6).

541—Maps, Charts, Graphs. (3).

**Land Planning and Management**

G451—Urban Land Planning and Residential Housing. (3).

G452—Geography and World Power. (3).

G455—Workshop in Conservation. (3 or 6).

551—Conservation of National Resources. (3).

553—Urban Geography. (3).

**Educational Geography**

561—Geographic Tools and Techniques. (3).

**Theory, Problems, and Theses**

590—Development of Geographic Thought. (3).

591—Problems in Geography.

A. Field of Regional Geography. (3).

B. Other Fields of Geography. (3).

593—Thesis. (3-6).

**GRADUATE COURSES IN SOCIOLOGY**

G411—Criminology. (3).

G412—Collective Behavior. (3).

G421—Contemporary Social Problems. (3).

**DEPARTMENT OF SPEECH AND DRAMA****Mr. White, Chairman****Mr. Bence, Mr. Irwin, Mr. King, Mrs. Newcomer, Mrs. Park,  
Mr. Prendeville, Mr. Rapp, Mr. Riggs**

Courses in the Department of Speech and Drama are designed to serve the following classes of students: 1. All those who desire the fundamental abilities and skills employed in such common activities as group discussion, reading aloud, and informal speech. 2. Potential elementary and high school teachers who need such knowledge regarding speech deficiencies as to enable them to diagnose the handicaps and possibly assist pupils in this most basic and personal activity. 3. Those who plan to enter vocations demanding special oral skills or desire to be teachers of speech. 4. Those students who wish to prepare themselves to direct dramatic productions in high schools and in community playhouses. 5. Those who wish to familiarize themselves with the art of dramatic production for the sake of enjoyment. 6. Those who wish a fundamental preparation for the profession of speech correctionist.

Through an affiliation with the Memphis Speech and Hearing Center, Memphis State University is able to offer to its students the facilities of that institution in the following ways: members of the staff of the Speech and Hearing Center will come to the Memphis State campus to teach courses in speech science and correction; and students registered in courses in speech science will be admitted to the Speech and Hearing Center for scheduled demonstrations and observations of clinical procedures used with children who have speech and hearing handicaps.

A major in speech and drama consists of at least 27 hours of course work, including the following courses: 111, 121, 231, 245; one course of the following: 251, 252, 253, 300 (two semesters at 1 semester hour each), plus at least ten (10) additional semester hours of courses numbered above 299.

A minor in speech and drama consists of at least 18 hours of course work, including the following courses: 111, 121, 245, 300 (one semester), plus one of the following courses: 231, 251, 252, 253, and plus at least five (5) semester hours of course work numbered above 299.

Students majoring in speech and drama are required to choose a second field of concentration in which they must complete at least the number of hours required by the School of Arts and Sciences for a minor.

Students majoring in speech and drama must participate in the dramatic and forensic activities of the department.

**Description of Courses**

<sup>1</sup>101—Business Speech. (3).

Basic principles of oral communication, with attention to the speaking situation of the business world.

<sup>1</sup>111—Basic Speech. (3).

Includes adjustment to the speaking situation, effective voice usage, bodily activity, and speech organization.

(1) Credit may be earned in only one of the following courses: 101, 111.

**112—Public Speaking. (3).**

A course designed to follow 101 and 111. Emphasis is placed on the organization and delivery of speeches of various types, including discussion techniques and speeches for various occasions. Attention is given to developing the student's ability to analyse and criticise speech performances.

**121—Voice and Diction. (3).**

Principles of effective voice usage, including special attention to the individual voices of the class members. Designed to improve voice characteristics and diction.

**231—Argumentation and Debate. (3).**

Deals with the principles of argumentation, analysis, evidence, and the organization of the argumentative discourse.

**245—Oral Interpretation. (3).**

A beginning course in the principles of the oral interpretation of literature.

**251—Theatre: Back Stage. (3).**

A lecture-laboratory course covering basic elements of scenery construction and painting, fundamentals of stage lighting, plus properties and make-up.

**252—Theatre: On Stage. (3).**

A lecture-laboratory beginning course for directors.

**253—Elementary Acting. (3).**

A lecture-laboratory course covering the basic techniques and principles of acting.

**300—Forensic and Dramatic Activities. (1 credit each semester.)**

A course provided for those people who are interested in preparing for and participating in extracurricular intercollegiate forensic activities—debate, discussion, oratory, extempore speaking, impromptu speaking, radio speaking—and dramatic activities. One hour credit for each semester for three clock hours of supervised laboratory work per week. A maximum of 2 hours credit may be allowed toward graduation.

**331—Discussion. (3).**

Consideration and practice of the principles and techniques of discussion, dealing with current problems of wide interest and significance.

**332—Advanced Public Speaking. (3).**

Emphasis on the problems of the individual for developing his speaking personality, with reference to his professional plans.

**334—Group Leadership and Parliamentary Procedure. (3).**

Consideration and practice of the application of speech techniques to group leadership, and the study of parliamentary procedures.

**345—Advanced Oral Interpretation. (3).**

An advanced course in the principles and practice of the oral interpretation of literature including poetry, prose, and drama. Prerequisite: Permission of the instructor.

351—Theatrical Design. (3).

The planning and practice of scene design for plays of all periods. Prerequisite: Permission of the instructor.

352—Advanced Play Directing. (3).

The direction of the long play, modern and historical.

353—Advanced Acting. (3).

A course surveying acting styles from classicism to realism.

354—History of the Theatre. (3).

A history and survey of drama from "Agamemnon" to "A Month in the Country."

355—History of the Theatre. (3).

A history and survey of drama from "Ghosts" to "Death of a Salesman."

381—Radio Survey. (3).

Considers the origin, development, and practices of the radio industry.

382—Radio and Television Production Procedures. (3).

The planning and production of radio and television scripts.

391—Methods in Teaching Speech. (3), (Same as Education 391P.)

Emphasis on the teaching of fundamentals of speech in the secondary school.

431—History of British and American Oratory. (3).

A history of the life, times, and speeches of outstanding orators of England and America. Prerequisite: Permission of instructor.

433—Persuasion. (3).

A course in advanced theory of the psychology of speech, investigation of audience motivation, the theory of persuasive techniques, and practical application of all of these.

445—Interpretation of Dramatic Literature. (3).

Practice in the interpretation of dramatic materials: Solo and group work in the interpretation of short stories and plays of all periods. Prerequisite: Permission of instructor.

451—Costume Design for the Stage. (3).

A survey of historic dress and the planning and rendering of costume designs for plays of all periods. Class schedule: two lectures and one laboratory each week. Prerequisite: Permission of the instructor.

452—Stage Lighting. (3).

The planning and execution of lighting for stage productions. Prerequisite: Permission of instructor.

457—Playwriting. (3).

Principles and practice in writing the one-act play. Prerequisite: Permission of instructor.

## 458—Playwriting. (3).

Principles and practice in writing the full-length play. Prerequisite: Permission of instructor.

## 465—Phonetics and Voice Improvement. (3).

Knowledge and practice in the use of the International Phonetic Alphabet. Consideration of the physiology of the ear and vocal mechanism. Analysis of, and improvement techniques for the voices of the members of the class.

## 466—Speech and Hearing Disorders. (3).

A general introduction to the causes, symptoms, and the effects of speech and hearing disorders.

## 467—Principles and Methods of Speech Correction. (3).

An introduction to the principles and methods of correcting speech and hearing disorders, with scheduled observations and demonstrations at the Memphis Speech and Hearing Center. Prerequisite: Permission of instructor.

## 468—Hearing Conservation. (3).

An introductory course dealing with the theory and techniques practiced in audiometry and speech reading. Prerequisite: Permission of instructor.

## 491—Speech for the Classroom Teacher. (3).

Deals with the speaking needs and abilities of teachers and students in the public schools.

## 492—Play Production for Secondary Schools. (3).

Considers the problems of the play director in high schools.

## 493—Forensics in the High School. (3).

Considers the problems of the director of speech activities in high schools. Prerequisite: Permission of instructor.

### **Graduate Courses**

## G431—History of British and American Oratory. (3).

## G466—Speech and Hearing Disorders. (3).

## G492—Play Production for Secondary Schools. (3).

## G493—Forensics in the High School. (3).

# THE SCHOOL OF BUSINESS

**Purpose.** The purposes of The School of Business are to provide a program of professional education at the university level which will prepare men and women to occupy positions of responsibility in business organizations or to operate businesses of their own successfully and efficiently; and to train superior teachers of business subjects.

A significant characteristic of The School of Business is that it provides for concentration in the basic areas of economics and business, not as a substitute for, but as a part of a broad liberal education. A minimum of 40 percent of the total course work is taken outside of The School of Business—in liberal arts, science, education, and other fields.

**Careers in Accounting.** With the current expansion of business organizations, increases in complexity of financial records resulting from Federal regulations, and the expanded use of automation, the trend is toward employing trained accountants not only for the technical accounting work, but also in many other units of a business organization. Completion of the accounting curriculum prepares a student to enter upon these activities.

Two laboratories, conveniently arranged with individual tables and providing ample blackboard space, are available for accounting classes.

The American Institute of Certified Public Accountants testing program is carried out, all students being given the Orientation Test at the beginning of their first semester in accounting. Later, they are given the Institute's achievement tests.

**Careers in Finance and Management.** These are important phases of business activity. By completing one of the curriculums in the Finance and Management Department, a student will prepare himself to enter either the field of public finance—city, state, and Federal operations—or private finance which includes banking, brokerage houses, and the like; or in the field of management. In addition, he will be qualified to carry on graduate work in finance and economics.

**Careers in Marketing and Sales.** The Marketing Department provides training in the techniques of distribution and procurement of goods and services at both the retail and wholesale levels, leading to such occupations as sales management, advertising, sales promotion, and market research.

**Careers as Professional Secretaries.** The value of a secretary, either man or woman, who has a university degree is receiving consistently increasing recognition by business executives. Students who complete the secretarial curriculum will experience no difficulty in meeting competition and in satisfying the demands of particular employers.

Two secretarial laboratories are available. One is primarily for typewriting instruction. The other is equipped with voice-writing machines, stencil- and spirit-duplicators, mimeoscopes, electric typewriters, and other varieties of secretarial equipment.

**Statistics.** Statistical instruction is given in preparation for economic and market research. A well-equipped laboratory is available for acquiring a working knowledge of the various calculating machines.

**Pre-Law.** A 3-year pre-law curriculum is provided. It satisfies the entrance requirements of regular law schools. A student who completes this curriculum with a major in either accountancy or finance (economics) may receive the Bachelor of Business Administration degree from Memphis State University upon presenting evidence of having successfully completed one year's work in an accredited law school.

### GENERAL INFORMATION

**Admission Requirements.** Any student who is admitted to the University may enroll in The School of Business.

**Divisions.** The first four semesters, the freshman and sophomore years, are called the Lower Division; the remaining four semesters, the junior and senior years, constitute the Upper Division.

The Lower Division work includes some basic business courses, but stresses development in liberal arts, science, professional education, and other academic fields.

In the Upper Division, the student will complete: (a) an 18-hour core curriculum, (b) the requirements for the major, (c) the requirements for the minor, and (d) additional work, if necessary, to bring his total credits to 132 with 264 quality points.

A grade of C or better must be earned in every upper Division Course applied toward satisfaction of the specific major.

**Correspondence and Extension Work.** The regulations relative to permission to take correspondence or extension courses while regularly enrolled at Memphis State University are given on page 43.

**Transfer Students.** A student who transfers from another approved institution to The School of Business at Memphis State University will be given credit toward his major and minor or other required work in The School of Business for all transferred business or other required courses with a grade of C or better provided they are equivalent to courses acceptable to The School of Business in this University.

In addition, a transfer student who is working toward a degree must take a minimum of 15 hours of Upper Division courses in The School of Business of which at least 9 hours are in his major field. If his minor is in The School of Business, he will take 6 or more hours in his minor field in The School of Business. The 6 minor hours may be part of the required 15.

**Residence Requirements.** The regulations relative to residence requirements during the junior and senior years are on page 43.

**Credits and Grade Points.** Regulations relative to the number of credits and grade points required for graduation are given on page 44.

**Probation.** Regulations regarding probation are on page 46.

**THE DEGREE PROGRAM****LOWER DIVISION**

The work to be covered in the freshman and sophomore years; that is, the first four semesters, is outlined below. These courses are to be taken consecutively until they are completed. They are indicated by semesters, but one-semester courses may be taken either semester.

**Semester I**

English 111 (Composition) .....	3
Speech 101 (Business Speech).....	3
Biological or Physical Science .....	3
Mgmt. 101 (Intro. to Bus.) .....	3
Elective .....	3
P. E. 100 (Conditioning) .....	1
A.F.R.O.T.C. 111	
(Air Science) .....	1

**Semester II**

English 112 (Composition) .....	3
Math. 121 (General Math.) .....	3
Biological or Physical Science .....	3
Psychology 111 (General) .....	3
Elective .....	3
P. E. 100 (Conditioning) .....	1
A.F.R.O.T.C. 112	
(Air Science) .....	2

a. Students who expect to major in accountancy may, with permission, enroll in Acctg. 201-202 (Fundamentals) in the freshman year. Acctg. 272 (Lab) should be taken with Acctg. 202.

b. Air Science is required by all men unless excused.

c. Typewriting ability is a basic requirement. Every student will enroll in a typewriting class his first semester in The School of Business, or arrange to take a typing test. If a student fails in the test he will enroll in a typewriting class the next semester following.

d. Students who expect to major in secretarial science may start their typewriting course work in the freshman year.

e. The two semesters of science must be sequence courses.

**Semester III**

Acctg. 201 (Fundamentals I) ....	3
English 211 (Literature) .....	3
History 221 (United States) ....	3
Principles of Economics I .....	3
Elective .....	3
P. E. 200 (Activity) .....	1
A.F.R.O.T.C. 211	
(Air Science) .....	1

**Semester IV**

Acctg. 202 (Fundamentals II) .....	3
English 212 (Literature) .....	3
History 222 (United States) .....	3
Principles of Economics II .....	3
Elective .....	3
P. E. 200 (Activity) .....	1
A.F.R.O.T.C. 212	
(Air Science) .....	2

a. Acctg. 311-312 (Intermediate) may be taken by students with credit in Acctg. 202.

b. Secretarial majors may start shorthand in the sophomore year.

c. Air Science is required by all men unless excused. Men taking Air Science 211-212 are excused from P. E. 200.

d. Mgmt. 341 (Business Organization) may be taken in Semester IV by students who have credit in Acctg. 202 and Principles of Economics I.

e. Mktg. 301 (Principles) should be taken in semester IV by all marketing majors and by others who can fit it into their schedules if Principles of Economics I has been completed.

**UPPER DIVISION**

In the junior and senior years, every student enrolled in The School of Business will complete the work outlined in the three groups given below:

**Group 1. Upper Division Core Curriculum**

Every student enrolled for the degree, except as noted below, will take and receive credit for the six courses (18 hours) listed here:

Business Law (Mgmt. 301-302).....	6
Business Organization and Finance (Mgmt. 341).....	3
Money and Banking I (Mgmt. 361).....	3
Business Statistics I (Mgmt. 371).....	3
Principles of Marketing (Mktg. 301).....	3

- a. Three-year pre-law majors will omit Mgmt. 301-302 and Mktg. 301.
- b. Secretarial majors will take Mgmt. 301-302 and two additional courses from the list above (12 hours).

**Group 2. The Major**

With the assistance of his advisor, each student, not later than the beginning of the junior year, will select from the list below the area in which he desires to specialize. This selection will be known as the major. After selecting his major, the student will report to the Director of the school and be assigned to a major professor who is a member of the department in which the major is located.

The departments in The School of Business are given below, followed by the names of the major areas in each:

Department of Accountancy  
 Industrial Accounting  
 Pre-Law (Accounting Major)  
 Public Accounting

Department of Finance and Management  
 Business Research  
 General Business Management  
 Industrial Management  
 Insurance  
 Personnel Administration  
 Banking  
 Business Finance  
 Economics  
 Governmental Finance  
 Industrial Relations  
 Investments  
 Real Estate  
 Transportation

Department of Marketing  
 Advertising  
 Marketing  
 Retailing  
 Sales

Department of Secretarial Science and Office Management  
 Secretarial Science  
 Office Management

Descriptions of all departments are given on the pages following.

### **Group 3. The Minor**

To broaden his background, every student is required to complete sufficient work in an area other than his major to evidence some degree of specialization in that area. It will be known as the minor. Two options are available:

a. **Minor in The School of Business.** The minor may be in an area in The School of Business other than the major area. It must include a minimum of 9 hours in Upper Division courses in the minor area. The minor program should be approved by the head of the minor department early in the junior year.

b. **Minor in Another School.** The minor may be completed in a department of one of the other schools. It must be in one department or one unit of a department which includes several categories. This minor is a minimum of 18 hours with not less than 6 hours in courses numbered above 299.

A student enrolled in one of the other schools may complete his minor in any department of The School of Business. The minor is described following each major area description. A general minor in Business Administration is not available.

**DEPARTMENT OF ACCOUNTANCY****Mr. Spiceland, Chairman****Mr. Crawford, Mr. Curbo, Mr. Fitzpatrick, Mr. Peeples, Mr. Thompson,  
Mr. Wray**

The objective of the Department of Accountancy is to provide the graduate with a substantial background in accountancy which will enable him to adjust himself to any accounting situation, and to advance rapidly in industry or public accounting practice.

A person who selects Accountancy as his major will satisfy the academic requirements for the degree by completing (a) the Lower Division program including Acctg. 272 (Lab), (b) the 18-hour core curriculum, (c) the requirements for his minor, and (d) the major consisting of the 27 hours of Upper Division accounting courses indicated below:

**Basic Accounting Courses.** Every accountancy major will take 21 hours of basic accounting courses listed here:

311-312 (Intermediate) .....	6
331-332 (Cost) .....	6
421 (Advanced I).....	3
451 (Federal Tax I).....	3
*324 (Internal Auditing) or 424 (Public Auditing I)....	3

\* A person who is primarily interested in industrial accounting will take Acctg. 324. If the primary interest is public accounting, he will take Acctg. 424.

**Elective Accounting Courses.** In addition to the basic courses, every accountancy major will take a minimum of two of the courses listed below:

422 (Advanced II).....	3
425 (Public Auditing II).....	3
445 (Systems) .....	3
446 (Controllershship) .....	3
452 (Federal Tax II).....	3
454 (Governmental Accounting).....	3
S531 (Standard Cost Accounting).....	3
S591 (Current Accounting Problems).....	3

Those interested in industrial accounting should take Acctg. 446. S-500 courses may be taken only in the senior year or as graduate work.

Acctg. S581, Internship in Accounting (not listed above) may be elected on recommendation of the accountancy staff. It requires full-time employment in the office of a certified public accountant.

**The Minor.** The minor in accountancy consists of: Acctg. 201-202 (Fundamentals), 272 (Lab), 311 (Intermediate I), 331 (Cost I), and two additional Upper Division accounting courses.

## RECOMMENDED 4-YEAR CURRICULUM FOR ACCOUNTANCY MAJORS

### Semester I

English 111 (Composition).....	3
Mgmt. 101 (Intro. to Bus.).....	3
Math. 121 (General).....	3
Science (Biologic or Physical).....	3
Sec. Sci. 121 or 222 (Typing).....	3
P.E. 100 (Conditioning).....	1
A.F.R.O.T.C. 111 (Air Sci.).....	1

### Semester III

Acctg. 202 (Fundamentals II).....	3
Acctg. 272 (Lab).....	1
English 211 (Literature).....	3
History 221 (United States).....	3
Prin. of Econ. I .....	3
Elective .....	3
P.E. 200 (Activity).....	1
A.F.R.O.T.C. (Air Sci.).....	1

### Semester V

Acctg. 312 (Intermediate II).....	3
Acctg. 331 (Cost I).....	3
Mgmt. 301 (Business Law I).....	3
Mgmt. 361 (Money and Banking I).....	3
Elective .....	3

### Semester VII

Acctg. 451 (Fed. Tax I).....	3
Acctg. 421 (Advanced I).....	3
Acctg. Elective .....	3
Electives .....	6

### Semester II

English 112 (Composition).....	3
Acctg. 201 (Fundamentals I).....	3
Psychology 111 (General).....	3
Science (Biologic or Physical).....	3
Speech 101 (Business Speech).....	3
P.E. 100 (Conditioning).....	1
A.F.R.O.T.C. 112 (Air Sci.).....	2

### Semester IV

Acctg. 311 (Intermediate I).....	3
Mktg. 301 (Principles).....	3
English 212 (Literature).....	3
History 222 (United States).....	3
Prin. of Econ. II .....	3
P.E. 200 (Activity).....	1
A.F.R.O.T.C. 212 (Air Sci.).....	2

### Semester VI

Mgmt. 341 (Bus. Organization).....	3
Acctg. 332 (Cost II).....	3
Mgmt. 302 (Business Law II).....	3
Mgmt. 371 (Business Statistics) .....	3
Acctg. 324 or 424 (Auditing).....	3

### Semester VIII

Acctg. Elective .....	3
Acctg. Elective .....	3
Acctg. Elective .....	3
Electives .....	6

Men will take P.E. and Air Science the first two semesters, and Air Science but not P.E. in semesters III and IV. If excused from Air Science, a man will take P.E. for four semesters.

The typewriting requirement may be satisfied by passing a test.

The minor is to be taken care of as general electives.

**Pre-Law Major in Accountancy.** The 3-year pre-professional pre-law major may be satisfied by completing the three groups below:

1. **Lower Division.** The curriculum is the same as that for all majors, including the 7 hours of Lower Division accounting courses.

2. **Upper Division.** The Upper Division course work includes the 27 hours of courses listed below plus the requirements for a minor. Overall a minimum of 99 semester hours must be completed.

Business Organization and Finance (Mgmt. 341) .....	3
Money and Banking I (Mgmt. 361) .....	3
Business Statistics I (Mgmt. 371) .....	3
Intermediate Accounting I and II (Acctg. 311-312) .....	6
Introduction to Cost Accounting (Acctg. 331) .....	3
Elective Accounting courses .....	9

27

3. **The Minor.** If the minor is in one of the other schools, it requires a minimum of 18 semester hours, not less than 6 of which must be in courses numbered above 299.

The minor may be earned in the Management and Finance Department by taking three upper division courses in that department, exclusive of the courses listed above under Upper Division; plus the 6 hours of basic economics taken in the Lower Division.

### DESCRIPTION OF COURSES

#### 201—Fundamentals of Accounting I. (3).

Basic principles, journalizing and posting, the accounting cycle, accruals and deferments, valuation accounts, special journals including the voucher register. Both semesters.

#### 202—Fundamentals of Accounting II. (3).

Payrolls, taxation, partnership operation and dissolution, corporations, further applications of accounting theory. Prerequisite: Acctg. 201. Both semesters.

#### 272—Accounting Lab. (1).

The working of a practice set involving current accounting practice. Prerequisite: Acctg. 201. Both semesters.

#### 311—Intermediate Accounting I. (3).

Accounting records, end-of-period procedure, corrections of prior periods, accounting statements, comparative statements, working capital, miscellaneous ratios, profit and loss analysis, corporations. Prerequisite: Acctg. 202. Both semesters.

#### 312—Intermediate Accounting II. (3).

Cash and receivables, inventories, tangible operating assets, intangibles, investments, liabilities, reserves and valuation accounts, net income determination, statement of source and application of funds. Prerequisite: Acctg. 311. Both semesters.

#### 321—Financial Statement Analysis. (3).

Nature and scope of financial reports, business ratios, effectiveness of analysis techniques, interpretation of financial reports, study of typical statements. Prerequisite: Acctg. 202. Fall semester.

#### 324—Internal Auditing. (3).

Review and appraisal of internal accounting procedures of businesses, verification and analysis of financial and operating reports, function and organization of the internal auditing department. Prerequisite: Acctg. 312. Spring semester.

#### 331—Cost Accounting I. (3).

Material inventory records, inventory evaluation, accounting for labor, distribution of manufacturing costs, introduction to process cost. Prerequisite: Acctg. 202. Both semesters.

#### 332—Cost Accounting II. (3).

Process costs, estimated costs, standard costs, budgets. Prerequisite: Acctg. 331. Both semesters.

**421—Advanced Accounting I. (3).**

Partnerships, consignments, installment sales, insurance, statement of affairs, receiver's accounts, statement of realization and liquidation, annuities, estates and trusts. Prerequisite: Acctg. 312. Fall semester.

**422—Advanced Accounting II. (3).**

Agencies, home and branch offices, consolidations, mergers, foreign exchange. Prerequisite: Acctg. 312. Spring semester.

**424—Auditing I. (3).**

Ethics in accounting practices, auditing standards and procedures, programs of audit of various accounts, construction and indexing of various papers, reports to clients. Prerequisite: Acctg. 312, 332. Fall semester.

**425—Auditing II. (3).**

Application of auditing principal to verification of financial statements, preparation of reports, case studies applicable to specific industries, current trends. A practice audit is carried out. Prerequisite: Acctg. 424. Spring semester.

**445—Accounting Systems. (3).**

Problems involved in designing accounting installations for various types of business, including the designing of clerical departments and planning of required mechanical devices. Prerequisite: Acctg. 312. Spring semester.

**446—Controllershship. (3).**

Training in the field of administrative accounting, duties and functions of the controller, organization of the controller's office. Prerequisite: Acctg. 332. Fall semester.

**451—Federal Income Tax I. (3).**

Regulations pertaining to individuals and partnerships. Prerequisite: Acctg. 311 and 312, or permission of instructor. Fall semester.

**452—Federal Income Tax II. (3).**

Laws and regulations for corporations, estates, and fiduciaries. Prerequisite: Acctg. 451. Spring semester.

**454—Governmental Accounting. (3).**

Accounting theory and practice applicable to Federal, state, and local government; and to nonprofit institutions; budgetary control; control, classification, and use of funds; financial statements and reports. Prerequisite: Acctg. 312. Fall semester.

**S531—Standard Cost. (3).**

Budgets, determination of standards, variances and their functions, cost reports, profit projecting. Prerequisite: Acctg. 332.

**S581—Internship in Accounting. (3).**

Seniors majoring in public accounting, after receiving approval of the accounting faculty, are placed in offices of cooperating public accounting firms to receive on-the-job training under the direct supervision of a certified public accountant and the general supervision of the college accounting staff. Credit allowed upon acceptance of report of work done, verified by supervising accountant, and completion of a qualifying examination. Minimum time: 500 hours. Both semesters.

**S591—Current Accounting Problems. (3).**

Review for C. P. A. Examination, including theory of accounts, accounting practice, and auditing. Open to persons with substantial accounting backgrounds, and on permission of instructor. Spring semester.

**GRADUATE COURSES**

Courses are described above.

G421—Advanced Accounting I. (3).

G422—Advanced Accounting II. (3).

G424—Auditing I. (3).

G425—Auditing II. (3).

G445—Accounting Systems. (3).

G446—Controllership. (3).

G451—Federal Income Tax I. (3).

G452—Federal Income Tax II. (3).

G454—Governmental Accounting. (3).

531—Standard Cost. (3).

581—Internship in Accounting. (3).

591—Current Accounting Problems. (3).

**DEPARTMENT OF MANAGEMENT AND FINANCE**

**Mr. Markle, Chairman**

**Mr. Boyd, Mr. Fox, Mr. Harris, Mr. Larrabee, Mr. Sharp, Mr. Taylor,  
Mr. Templeton**

A person who selects **Management and Finance** as his major field will satisfy the degree requirements by completing the **Lower Division** program, the **18 hours of Upper Division Basic Business Courses**, the requirements for a minor, and a minimum of **21 hours of Upper Division** course work in either **Finance** or **Management** as indicated below:

**Management.** Every student who selects management as his major interest will complete the 9 hours of basic management courses listed below, and a minimum of 12 additional hours of Upper Division courses in his specific major.

The basic management courses are:

312. Economics of Business Enterprise .....	3
321. Labor Management .....	3
441. Corporation Finance, or	
442. Management of Business Enterprise.....	3

The major areas of Management are listed below. Each student will confer with his major professor as to the courses required for satisfaction of the major.

Business Research  
General Business Management  
Industrial Management  
Insurance  
Personnel Administration and Industrial Relations  
Real Estate  
Transportation

**Finance.** Every student who selects finance as his major interest will complete the 9 hours of basic finance courses listed below, and a minimum of 12 additional hours of Upper Division courses in his specific major.

The basic finance courses are:

451. Public Finance .....	3
461. Money and Banking II.....	3
491. Government Regulation and Business Policy.....	3

The major areas of finance are listed below. Each student will confer with his major professor as to the courses required for satisfaction of the major.

Banking and Investments  
Business Finance  
Economics  
Public Administration

**The Minor.** A student in one of the other schools may earn a minor in management or finance by taking the following 18 semester hours of course work: Acctg. 201-202 (Principles), Mgmt. 341 (Business

Organization), and Mgmt. 361 (Money and Banking); and two additional upper division courses in the selected field—two management courses or two finance courses.

If the major is in one of the business areas other than management and finance, the student may earn a minor in management by taking three approved upper division courses in management, or in finance by taking three approved upper division courses in finance, each exclusive of the basic upper division business courses.

**Pre-Law Major in Management and Finance.** The major in the 3-year pre-professional pre-law course with management and finance as the major area may be satisfied by completing the three groups of course work given below.

1. Lower Division. In the Lower Division, the student will follow the regular curriculum given above for all management and finance majors, including the 6 credits in introductory accounting courses and the 6 credits in basic economics.

2. Upper Division. In the Upper Division, the pre-law major will take the 27 hours in basic business and management and finance courses listed below, and will complete the minor requirements. Overall he must have a minimum of 99 semester credits.

Business Organization and Finance (Mgmt. 341).....	3
Introduction to Money and Banking (Mgmt. 361).....	3
Business Statistics I (Mgmt. 371), or	
Intermediate Accounting I (Acctg. 311).....	3
Six additional courses selected from the following:	
Mgmt. 312, 313, 321, 413, 441, 451, 461, 462, 491, 492 and 493.....	18

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3. The Minor. If the minor is in one of the other schools, it requires a minimum of 18 semester hours, not less than 6 of which must be in courses numbered above 299.

The minor may be earned in the Accountancy Department by taking the regular lower division courses and four upper division accounting courses in addition to the courses listed above under Upper Division. (If Business Statistics I is taken, Intermediate Accounting I may be included as one of the four accounting courses.)

## DESCRIPTION OF COURSES

### 101—Introduction to Business. (3).

A survey course to acquaint beginning business students with the major institutions and practices in the business world, to provide the elementary concepts of business, and to act as an orientation course for selection of a specific major. Open to freshmen only or by special permission. Both semesters.

### 211—Principles of Economics I. (Econ. 211) (3).

Economic concepts and terminology, fundamental principles underlying production, exchange, distribution, and consumption.

### 212—Principles of Economics II. (Econ. 212) (3).

The application of economic principles to major contemporary problems.

**271—Clerical Office Machines. (3).**

Instruction and practice in the operation of the major types of adding and calculating machines; development of a working knowledge of the 10-key and full keyboard adding machine, key-driven and rotary calculators, and other mechanical office devices. Both semesters.

**301—Business Law I. (3).**

Nature and classification of law, contracts, negotiable instruments. Study of selected cases. Prerequisite: junior classification or permission. Both semesters.

**302—Business Law II. (3).**

Business organization, personal property, trade regulations. Emphasis is placed on case studies. Prerequisite: Mgmt. 301. Both semesters.

**304—Transportation. (3).**

Development of American transportation system—waterways, highways, railways, and air; characteristics of modern transportation services; rates and rate making; public aid and regulation; problems of traffic management. Prerequisite: Basic Economics.

**311—Economic Development of the United States. (3).**

Analysis of economic growth of the American economy. Emphasis is placed on the factors instrumental in that growth in the various segments of the economy. Prerequisite: Basic Economics.

**312—Economics of Business Enterprise. (3).**

Analysis of the functioning of business enterprise by applying economic theory to the actual problems of business. Analysis techniques are applied to profit, competition, product policy, demand and cost conditions, pricing policies, and capital budgeting. Prerequisite: Basic Economics. Both semesters.

**313—Economics of Consumption. (3).**

Analysis of the role of the consumer in the functioning of the economic system and his viewpoint in relation to economic problems affecting his interests. Prerequisite: Basic Economics. Spring semester.

**321—Labor Management. (3).**

An introductory course dealing with the principles and history of labor policies, from the viewpoint of business management. Prerequisite: Basic Economics. Both semesters.

**322—Labor Legislation. (3).**

Historic and philosophic background for labor legislation. Emphasis on recent legislation in the labor area and the effects of these laws on social and economic institutions. Prerequisite: Mgmt. 321. Spring semester.

**331—Real Estate. (3).**

Real estate law, property description, methods of transferring property, joint ownership, tax sales and title to property, inheritance of real property. Prerequisite: junior classification or permission of instructor. Spring semester.

**335—General Insurance. (3).**

Theory, practice, and problems involved with life, fire, marine, casualty, and surety insurance; rates and rating; actuarial activities. Prerequisite: junior classification or permission of instructor. Fall semester.

**341—Business Organization and Finance. (3).**

Promotion, organization, and financing of business enterprise; principles underlying selection of business form; structure and trends of American enterprise system; financial management. Emphasis is placed on small and medium-sized enterprises. Prerequisite: Acctg. 202. Both semesters.

**345—Industrial Management. (3).**

Development of scientific management, principles and mechanism of organization and management in manufacturing covering: plant location and layout, mass production techniques, standardization conditions, and production controls. Prerequisite: Mgmt. 321. Spring semester.

**361—Money and Banking I. (3).**

Monetary and banking history of leading countries with special emphasis on the theory of money and banking in United States, deposit and earning operations of individual banks, interbank and central bank relations. Prerequisite: 6 hours of basic economics. Both semesters.

**371—Business Statistics I. (3).**

Procedures of collection, analysis, presentation, and interpretation of economic and business data. Prerequisite: Math. 121 or equivalent and Basic Economics. Both semesters.

**413—Advanced Economic Theory. (3).**

An introduction to the following concepts of price level, output, and employment: national income, neo-classical, quantity of money theory, and neo-Keynesian. Prerequisite: Basic Economics.

**414—Business Forecasting. (3).**

Study of the factors involved in the movements of business activity, irregular, seasonal, regular, and trend; and the application of the same for forecasting purposes in business. Prerequisite: Mgmt. 341, 361, and 371. Spring semester.

**421—Personnel Administration. (3).**

Employer-employee relationships; job analysis; recruitment, selection, training, transfer, promotion, and dismissal of employees; industrial unrest; wage plans and policies; employee health, interest, and morale; dealing with unions. Prerequisite: Mgmt. 321 or permission of instructor. Spring semester.

**422—Collective Bargaining. (3).**

Labor-management relations from the standpoint of collective bargaining contracts. Emphasis is given to the process of negotiating agreements, including procedures, tactics, and subject matter. Prerequisite: Mgmt. 321. Fall semester.

**431—Real Estate Law. (3).**

This course covers law and legal instruments as applied to real estate. It is designed to serve the needs of property owners and those engaged in the real estate business. Prerequisites: Mgmt. 302, 331.

**432—Real Estate Finance. (3).**

Examination and analysis of the sources of funds for financing all kinds of real estate transactions, including FHA and VA types. Prerequisites: Mgmt. 302, 361, and 331.

**433—Property Management. (3).**

The fundamentals of management of real estate are developed. Examination and analysis of problems, duties, and responsibilities of the property manager are covered. Prerequisite: Mgmt. 431.

**434—Real Estate Appraisal. (3).**

This course covers the fundamentals of appraising residential, commercial, and industrial real estate. Prerequisite: Mgmt. 432.

**441—Corporation Finance. (3).**

Advanced treatment of financial management with emphasis on small and medium-sized enterprise and the forces underlying determination of policy. Financial problems are considered in connection with refunding, reorganization, mergers, and consolidations. Prerequisite: Mgmt. 341. Spring semester.

**442—Management of Business Enterprise. (3).**

Consideration is given to over-all policy formation and practice in the operation of new and going business concerns. Emphasis is placed on problems of nonfinancial management in the small firm. Prerequisite: Mgmt. 341. Fall semester.

**443—Business Contacts. (3).**

A study of the contacts of business with its owners, creditors, employees, customers, community and various governments. Prerequisites: Mgmt. 321 and 441 or 442.

**451—Public Finance. (3).**

Theory and practice of government expenditure and revenue; theory, practice, shifting, and incidence of the various forms of taxation; elementary consideration of the integration of revenue and expenditure into fiscal policy. Prerequisite: Basic Economics. Fall semester.

**452—State and Local Finance. (3).**

Specialized treatment of state and local financial administration of revenue and expenditure, with emphasis on Tennessee. Consideration is given to trends in policy formation and integration with Federal fiscal policy. Prerequisite: Basic Economics.

**461—Money and Banking II. (3).**

A more detailed consideration of banking and its problems since 1930. Emphasis is given to monetary and banking policy and its relationship to business and fiscal policy. Prerequisite: Mgmt. 361. Fall semester.

**462—Investments. (3).**

The principles of investment in stocks and bonds and their application to specific classes of investments. Prerequisite: Mgmt. 341. Spring semester.

**471—Business Statistics II. (3).**

Extension of the range of topics covered in Business Statistics I to include methods of correlation, analysis of variance, forecasting, and general business research. Prerequisite: Mgmt. 371. Spring semester.

**491—Government Regulation and Business Policy. (3).**

A critical study of the impact of legislation and commission regulation on business policies. The effect of tax laws, Securities and Exchange Commission regulation and anti-monopoly legislation, and organizational, financial, and operational aspects of non-utility business enterprises. Prerequisite: Mgmt. 341. Fall semester.

**492—Government Fiscal Policy. (3).**

A critical examination of the most desirable goals for fiscal policy and the programs that may be followed to attain the various goals. Emphasis on tools available and techniques involved. Prerequisite: Mgmt. 413 or 461. Spring semester.

**493—International Trade. (3).**

Historical approach to the theory of international trade. Consideration is given to the techniques of control over investment and trade, foreign exchange, balance of payments, and world interdependence. Prerequisite: Mgmt. 361. Spring semester.

**494—Current Economic Problems. (3).**

A study of current domestic and international economic problems with special emphasis on international trade, foreign investments, economic reconstruction, and world economic organization and co-operation. Prerequisite: Mgmt. 361.

**495—Management and Financial Problems. (1-3).**

Student will carry on approved research projects in his major area under supervision of staff member. Prerequisite: Permission of head of the department. Both semesters.

**S503—Law of Taxation of Estates, Inheritances, and Gifts. (3).**

A survey course of the law of taxation as applied to the transmission of property by gift or death and its impact upon accumulations of wealth. The constitutional basis, statutory implementation, administrative regulation, and court interpretation of the laws of the United States and the various states. Prerequisite: Mgmt. 302.

**S505—Estate Planning. (3).**

Estate planning from an individual viewpoint designed to create, maintain, and distribute the maximum estate possible. Consideration is given to the aspects of law, insurance, real estate, investments, and taxes as they relate to the creation of estates by individuals and those who will be engaged in assisting others. Prerequisite: Mgmt. 503.

**S541—Analysis and Control of Business. (3).**

An overall study of management problems and the application of scientific management techniques to the control of various phases of business operation. Included are: general management controls, financial management controls, sales management control, production management controls, and personnel control and appraisal. Prerequisite: Mgmt. 441 and/or 442.

**S542—Advanced Management of Business Enterprise. (3).**

The development of the Top Management viewpoint, the basic objective being to develop executive abilities and creative thinking. Selected problem areas of modern business will be explored, alternative courses of action appraised, and decision making ability developed. Prerequisite: Mgmt. 442 and/or 441.

**S561—Monetary and Fiscal Policy. (3).**

The planning and implementation of various monetary and fiscal measures. Emphasis is placed on the probable impact on important segments of the economy, the changes most likely to result, and significance of those changes to business. Included is a survey of the tools, techniques, and changes in economic thinking as to their use. Prerequisites: Mgmt. 461 or 492.

**S562—Investment Portfolio Planning. (3).**

A study of the objectives of investment management with the emphasis on investments by individuals rather than by institutions. A study of risks as the principal elements involved in making investment decisions; the analysis of particular industries, companies and securities involved in the selection of portfolio securities. The em-

phasis is on long term investment decisions; however, considerable attention is given to the timing of purchases and sales. Prerequisite: Mgmt. 462.

### **GRADUATE COURSES**

Courses are described above.

- G413—Advanced Economic Theory. (3).
- G414—Business Forecasting. (3).
- G421—Personnel Administration. (3).
- G422—Collective Bargaining. (3).
- G431—Real Estate Law. (3).
- G432—Real Estate Finance. (3).
- G433—Property Management. (3).
- G434—Real Estate Appraisal. (3).
- G441—Corporation Finance. (3).
- G442—Management of Business Enterprise. (3).
- G443—Business Contacts. (3).
- G451—Public Finance. (3).
- G452—State and Local Finance. (3).
- G461—Money and Banking II. (3).
- G462—Investments. (3).
- G471—Business Statistics II. (3).
- G491—Government Regulation and Business Policy. (3).
- G492—Government Fiscal Policy. (3).
- G493—International Trade. (3).
- G494—Current Economic Problems. (3).
- G495—Management and Financial Problems. (1-3).
- 503—Law of Taxation of Estates, Inheritances, and Gifts. (3).
- 505—Estate Planning. (3).
- 541—Analysis and Control of Business. (3).
- 542—Advanced Management of Business Enterprise. (3).
- 561—Monetary and Fiscal Policy. (3).
- 562—Investment Portfolio Planning. (3).

**DEPARTMENT OF MARKETING****Mr. Spindler, Chairman****Mrs. Chapman, Mr. Halcomb, Mr. Ingram,****Mr. Ryans, Mr. Tonning**

The objective of the Department of Marketing is to provide the student with a broad concept of the marketing process—to develop a foundation of understanding of all the factors involved in the collection and distribution of goods and services. Four majors are offered—Advertising, General Marketing, Retailing, and Sales.

For the degree, a student will complete the Lower Division program, the 18-hour Upper Division Core Curriculum, the requirements for a minor, and a minimum of 24 hours of Upper Division Marketing and related courses which constitute the major.

Marketing 301 (Principles of Marketing) is basic to other marketing courses.

**Basic Marketing Courses.** As a foundation, all marketing majors will take the 12 hours of course work outlined below:

351 (Principles of Advertising).....	3
361 (Salesmanship) .....	3
381 (Principles of Retailing).....	3
401 (Marketing Administration) .....	3

**Major in Advertising.** A student whose primary interest lies in the field of advertising will, with the approval of his advisor, take a minimum of 12 hours of course work selected from the following:

352 (Advanced Advertising) .....	3
354 (Industrial Advertising) .....	3
356 (Retail Advertising) .....	3
358 (Advertising Law and Business Ethics) .....	3
459 (Work Experience in Advertising) .....	3-6
491 (Marketing Research) .....	3
Jour. 314 (Advertising Copy Writing) .....	3
Art 315 or 316 (Advertising Design) .....	3

**Major in General Marketing.** A student whose primary interest lies in the field of distribution, market research, and the like, will, with the approval of his advisor, take a minimum of 12 hours of course work selected from the following:

321 (Marketing Farm Products).....	3
354 (Industrial Advertising).....	3
375 (Wholesaling) .....	3
421 (Industrial Marketing) .....	3
425 (Product Planning).....	3
435 (Cotton Marketing) .....	3
436 (Cotton Problems) .....	3
461 (Sales Management) .....	3
491 (Marketing Research) .....	3
Mgmt. 493 (International Trade).....	3
I.A. 341 (Materials of Industry) .....	3

**Major in Retailing.** A student whose primary interest is the acquisition of a background which will serve effectively in the operation and management of a retail establishment will, with the approval of his advisor, take a minimum of 12 hours of course work selected from the following:

356 (Retail Advertising).....	3
382 (Buying and Pricing).....	3
385 (Retail Display and Promotion).....	3
481 (Retail Policies and Problems).....	3
485 (Credit and Collections).....	3
489 (Work Experience in Retailing).....	3-6
491 (Marketing Research) .....	3
Home Ec. 312 (Textiles) or 481 (Home Furnishings)	3

**Major in Sales.** A student whose primary interest is in the field of sales and sales management will, with the approval of his advisor, take a minimum of 15 hours of course work selected from the following:

362 (Advanced Salesmanship) .....	3
366 (Sales Promotion) .....	3
461 (Sales Management) .....	3
462 (Sales Controls, Training, and Supervision) .....	3
469 (Work Experience in Sales).....	3-6
491 (Marketing Research) .....	3

A student who is enrolled in a work-experience course (Mktg. 459, 469, or 489) should not be enrolled for more than 15 hours including the work-experience course.

**The Minor.** If the major is in a business area other than marketing, the minor may be earned by taking three approved Upper Division courses exclusive of Mktg. 301.

A student enrolled in one of the other schools may earn a minor in marketing by taking: Acctg. 201-202 (Fundamentals), Mktg. 301 (Principles), and three additional approved Upper Division marketing courses.

## DESCRIPTION OF COURSES

### 301—Principles of Marketing. (3).

General survey of the marketing structure; development, functions, costs, institutions, and pricing policies. Prerequisite: Basic Economics, or permission of instructor. Both semesters.

### 321—Marketing Farm Products. (3).

Functional, commodity, and institutional problems concerned with marketing farm products including the roles of farmers, cooperatives, government, and food processing industries; and the roles of wholesalers and retailers of food products in getting these products to the ultimate consumer. Prerequisite: Mktg. 301. Spring semester.

### 351—Principles of Advertising. (3).

General survey of the field of advertising including agencies, media, layout, typography, and copy. Prerequisite: Mktg. 301 or permission of instructor. Both semesters.

**352—Advanced Advertising. (3).**

A study of the various phases of advertising with practical applications of advertising methods and procedures. Prerequisite: Mktg. 351. Both Semesters.

**354—Industrial Advertising. (3).**

A study of advertising procedures and techniques which are especially useful to production industry. Primary emphasis is placed upon trade papers and catalogs. Prerequisite: Mktg. 352. Spring semester.

**356—Retail Advertising. (3).**

A study of advertising procedures and techniques which are especially valuable to the retailer. Primary emphasis is placed on newspaper and direct mail advertising. Prerequisite: Mktg. 352, or permission of instructor. Fall Semester.

**358—Advertising Law and Business Ethics. (3).**

Federal, state, and municipal laws and ordinances affecting advertising; self-regulation by business; review of origin and development of advertising clubs, better business bureaus, and trade and professional organizations.

**361—Salesmanship. (3).**

Basic principles underlying the sales process with actual sales demonstrations and projects in selling. Prerequisite: Principles of Economics I. Both semesters.

**362—Advanced Salesmanship. (3).**

Survey of the literature on salesmanship; creative thinking sessions; portfolio preparation; and demonstrations of "role playing" in the selling function. Prerequisite: Mktg. 361. Spring semester.

**366—Sales Promotion. (3).**

A study of promotional methods used at the various marketing levels. Included are: planning, media used, publicity, displays, contests, and other sales promotion aids. Prerequisite: Mktg. 361 or permission of instructor. Fall semester.

**375—Wholesaling. (3).**

General survey of the wholesaling structure, organization, management, and operation. Prerequisite: Mktg. 301. Fall semester.

**381—Principles of Retailing. (3).**

Fundamental principles underlying the successful operation of a retail business. Prerequisite: Mktg. 301. Both semesters.

**382—Buying and Pricing. (3).**

A study of the problems confronting retailers, wholesalers, and other middlemen in properly estimating customer demand; ascertaining sources of supply; negotiating price and terms with resource; and pricing for resale. Prerequisite: Mktg. 381. Both semesters.

**385—Retail Display and Promotion. (3).**

Techniques of installing window and interior displays, fixtures and materials used in display preparation, place of display and promotion in the sales program. Prerequisite: Mktg. 382. Spring semester.

**401—Marketing Administration. (3).**

A case study of actual business marketing problems and the techniques used to solve them. Prerequisite: Mktg. 301. Both semesters.

**421—Industrial Marketing. (3).**

A study of problems and policies of industrial purchasing, programs and policies in marketing with emphasis on channels of distribution. Prerequisite: Mktg. 301. Fall semester.

**425—Product Planning. (3).**

Study of a product from the idea stage to placement of the product satisfactorily in the market place. Prerequisite: Mktg. 401. Spring semester.

**435—Cotton Marketing. (3).**

Cotton as a special commodity is traced through the stages of production, processing, and marketing in the raw state; spinning and weaving or knitting; finishing; fabrication; and distribution at the wholesale and retail levels. Prerequisite: Mktg. 401 or permission of instructor. Fall semester.

**436—Cotton Problems. (3).**

Study of the current problems concerned with production and distribution of cotton and cotton products. Prerequisite: Mktg. 435 or permission of instructor. Spring semester.

**459—Work Experience in Advertising. (3-6).**

Seniors majoring in advertising, after receiving approval of the marketing staff, will obtain actual experience by working a prescribed number of hours in approved advertising agencies or media. Both semesters.

**461—Sales Management. (3).**

Problems confronting the sales executive, including control and management of the sales force. Prerequisite: Mktg. 361. Fall semester.

**462—Sales Controls, Training, and Supervision. (3).**

A balanced study of two sales management problem areas—sales training techniques and field sales supervision. Textbooks and trade literature are surveyed and compared with practice in current usage. Prerequisite: Mktg. 461. Spring semester.

**469—Work Experience in Sales. (3-6).**

Students who are majoring in Sales, after receiving approval of the marketing faculty, will obtain actual experience by working a prescribed number of hours in sales activities in approved organizations. Both semesters.

**481—Retail Policies and Problems. (3).**

A study of the problems which retailers are currently facing and an analysis of the policy decisions they must make to meet these problems effectively. Prerequisites: Mktg. 381, 382. Spring semester.

**485—Credit and Collections. (3).**

System of credit and collections employed today, significance of credit information, management of charge accounts and credit, and collection correspondence. Prerequisite: Mktg. 301. Spring semester.

**489—Work Experience in Retailing. (3-6).**

Seniors majoring in retailing, after receiving approval of the marketing faculty, will obtain actual experience by working a minimum of 200 hours in approved distributive organizations. Both semesters.

**491—Marketing Research. (3).**

Research methods and procedures used in the field of marketing to help solve marketing problems. Prerequisite: Mgmt. 371, Mktg. 401. Spring semester.

**S591—Problems in Marketing. (1-6).**

Directed independent research projects in an area selected by the student with the approval of a supervising staff member. Prerequisite: 6 hours of undergraduate Upper Division course work in the area selected. The areas are:

- A. Advertising (1-6).
- B. Marketing (1-6)
- C. Retailing (1-6).
- D. Sales (1-6).

**GRADUATE COURSES**

Courses are described above.

G401—Marketing Administration

G421—Industrial Marketing.

G425—Product Planning.

G461—Sales Management.

G462—Sales Control.

G481—Retail Policies and Problems.

G485—Credit and Collections.

G491—Marketing Research.

591—Problems in Marketing.

- A. Advertising.
- B. Marketing.
- C. Retailing.
- D. Sales.

**DEPARTMENT OF SECRETARIAL SCIENCE AND  
OFFICE MANAGEMENT****Mr. Jennings, Chairman****Miss Johnson, Mr. Patterson, Mr. Roberts, Mrs. Treece**

A student who elects to use secretarial science or office management as his major will follow the curriculum given below:

**Lower Division**

In the Lower Division, the student will follow the general lower division program given on page 130.

As the elective in the freshman year, he will take two semesters of typewriting (Sec. Sci. 121-122). If he has had previous training in typewriting, he may, with the approval of his counselor, omit Sec. Sci. 121 and take Sec. Sci. 122 and a higher typewriting course, or one semester of another elective.

As the sophomore elective, a secretarial science major will take two semesters of shorthand (Sec. Sci. 211-212). If he has had previous training in shorthand he may, with approval of his counselor, omit Sec. Sci. 211 and take Sec. Sci. 212 and a higher shorthand class or one semester of another elective.

Majors in office management may omit shorthand from their programs.

**Upper Division**

During the junior and senior years the student will satisfy the requirements in the Upper Division Core Curriculum, the major requirements for secretarial science or office management, and the requirements for a minor. He will take additional courses as electives to bring the total number of credits for the four years to a minimum of 132 with a scholastic average of C (2.0) or better. He must have C or better in all upper division major courses.

**Upper Division Core Curriculum**

Secretarial science majors will take Mgmt. 301-2, and two additional courses selected from the following group. Office management majors will complete the 18 semester hours below.

Mgmt. 301-2 Business Law .....	6
Mgmt. 341 Business Organization and Finance .....	3
Mgmt. 361 Money and Banking .....	3
Mgmt. 371 Business Statistics .....	3
Mktg. 301 Principles of Marketing .....	3

**Major in Secretarial Science**

The requirements for the major will be satisfied by the completion of 24 hours of credit in upper division secretarial and office management courses as indicated below:

All majors in secretarial science will take the 18 hours of course work listed here:

Sec. Sci. 311 Advanced Shorthand .....	3
Sec. Sci. 351 Business Report Writing .....	3

Sec. Sci. 352 Business Letter Writing .....	3
Sec. Sci. 371 Secretarial Office Machines .....	3
Sec. Sci. 431 Applied Secretarial Practice .....	3
Sec. Sci. 442 Office Management .....	3

Two additional courses (6 credits) are to be taken, selected with the approval of the major professor, from the list below:

Sec. Sci. 312 Advanced Shorthand .....	3
Sec. Sci. 321 Advanced Typewriting .....	3
Sec. Sci. 421 Secretarial Typewriting .....	3
Sec. Sci. 432 Applied Secretarial Practice II .....	3
Sec. Sci. 433 Secretarial Dictation .....	3

Note. Not over 3 courses (9 credits) in typewriting can be applied toward satisfaction of the degree requirements by a student with high school typewriting credit.

### Major in Office Management

The requirements for the major will be satisfied by the completion of 21 hours of credit in the upper division courses indicated below:

All majors in office management will take the 18 hours of course work listed here:

Mgmt. 312 Economics of Business Enterprise .....	3
Acct. 321 Financial Statement Analysis .....	3
Sec. Sci. 351 Business Report Writing .....	3
Sec. Sci. 352 Business Letter Writing .....	3
Sec. Sci. 371 Secretarial Office Machines .....	3
Sec. Sci. 442 Office Management .....	3

One additional course is to be taken, selected with the approval of the major professor, from the list below:

Mgmt. 421 Personnel Administration .....	3
Mgmt. 441 Corporation Finance .....	3
Mgmt. 442 Management of Business Enterprise .....	3
Mktg. 485 Credits and Collections .....	3

### The Minor

A student in one of the other schools may earn a minor in secretarial science by completing the following course work. It will require from 18 to 21 hours, depending upon previous training: Sec. Sci. 121-122 (typewriting—6 credits), Sec. Sci. 211-212 (shorthand—6 credits), Sec. Sci. 311 (advanced shorthand—3 credits), and two or three additional upper division secretarial science courses. A minimum of 18 hours is required.

Note. A student with previous training in typewriting may omit Sec. Sci. 121 (3 credits), and one with previous training in shorthand may omit Sec. Sci. 211 (3 credits). This amounts to reducing the minor from 21 hours to 18 semester hours.

A student in one of the other schools may earn a minor in office management by taking: Acct. 201-202 (Fundamentals), Mgmt. 312 (Economics of Business Enterprise), Sec. Sci. 442 (Office Management), and two approved upper division courses in secretarial science.

A student whose major is one of the business areas other than secretarial science may earn a minor in office management by taking Sec. Sci. 351, 352, 371, and 442.

A student whose major is one of the business areas other than office management may earn a minor in secretarial science by taking a minimum of one course above the beginning courses in shorthand and in typewriting (satisfied by Sec. Sci. 311 and 321), and two additional approved upper division courses.

### DESCRIPTION OF COURSES

#### 121—Elementary Typewriting I. (3).

Use and operation of the parts of the typewriter, mastery of the keyboard, simple business and professional letters and reports, introduction to tabulations. Four meetings per week. Both semesters.

#### 122—Elementary Typewriting II. (3).

Typing manuscripts, legal documents, and the several styles of business letters; tabulations; operation of duplicating machines; development of a typing rate of better than 45 words per minute. Required by secretarial majors. Credit is allowed in only one of the courses: SS 122 and SS 222. Both semesters.

#### 211—Fundamentals of Shorthand I. (3).

Basic principles of Simplified Gregg Shorthand—alphabet, brief forms, phrases, and abbreviations; beginning dictation and pre-transcription training. Two lectures and two laboratory periods per week. Both semesters.

#### 212—Fundamentals of Shorthand II. (3).

Further study of shorthand theory, acquisition of ability to take rapid dictation and transcribe accurately. Enrollees must be able to type or be enrolled in a typewriting class while taking this course. Two lectures and two laboratory periods per week. Prerequisite: SS 211 or permission of instructor. Both semesters.

#### 222—Typing for General Business. (3).

An advanced typewriting class for nonsecretarial majors. Emphasis is placed on acquiring ability to set up business letters, forms, and statements, including tabulation. Credit is allowed in only one of the courses: SS 122 and SS 222. Prerequisite: SS 121 or permission of instructor. Both semesters.

#### 311—Advanced Shorthand I. (3).

Review of shorthand principles, daily speed practice, development of transcription skill for production of mailable transcripts. Two lectures and two laboratory periods per week. Prerequisite, or corequisite: SS 321.

#### 312—Advanced Shorthand II. (3).

A continuation of SS 311, providing additional training and practice for the development of greater dictation and transcription speed. Emphasis is placed on mailable transcription at vocational levels. Two lectures and two lab periods per week. Prerequisite: SS 311. Spring semester.

**321—Advanced Typewriting. (3).**

Review of business letter styles, manuscripts and reports, statistical tables, and legal forms. Development of a typing rate of better than 60 words per minute. Prerequisite: SS 122 or equivalent. Fall semester.

**322—Personal Use Typewriting. (3).**

Personal and business letters, reports, themes, and manuscripts. Prerequisite: SS 121 or permission of instructor. Summer term.

**351—Business Report Writing. (3).**

Techniques of report writing; principles of correct usage involving capitalization, spelling, word division, numbers, and punctuation; preparation of business reports, financial statements, auditor's reports, minutes of meetings, briefs, and research theses. Prerequisite: ability to type. Both semesters.

**352—Business Letter Writing. (3).**

Psychology of the business letter, preparation of various types of business letters, letter writing problems. Prerequisite: ability to type. Spring semester.

**371—Secretarial Office Machines. (3).**

Instruction and practice in the use of secretarial office machines such as: the electric typewriter; voice writing equipment—belt, disc, tape, and wire recorders; and stencil and direct process duplicators. Prerequisite: SS 351 and permission of instructor. Spring and summer.

**421—Secretarial Typewriting. (3).**

Production typing with emphasis on vocational standards for office positions including typing from copy and from voice writing equipment. Prerequisite: SS 371. Spring semester.

**431—Applied Secretarial Practice I. (3).**

Qualifications, duties and training of a secretary; requirements for employment; organization of work; telephone etiquette; business reference books; receptionist techniques. Fall semester.

**432—Applied Secretarial Practice II. (3).**

Handling of incoming and outgoing mail; filing procedure; installation, administration, and control of geographic, numeric, subject, and Soundex filing systems; practice in the several types of filing. Fall semester.

**433—Secretarial Dictation. (3).**

Students will do stenographic work in some offices on the campus. The instructor, after conferring with the office head, will plan remedial work designed to prepare student for stenographic employment upon completion of course. Three lectures or 9 hours of office work per week. Prerequisite: Permission of instructor. Both semesters.

**442—Office Management. (3).**

Modern methods in office organization and management; office systems and routines; office planning and layouts; furniture and equipment; selection, training, and compensation of office personnel; problems in handling the office staff; preparation and use of office manuals. Spring semester.

### **GRADUATE COURSES**

**591—Improvement of Instruction in High School Business Subjects. (3).****592—Seminar in Business Education. (3).**

# BUSINESS EDUCATION

Preparation for teaching business subjects in the secondary school is an important function of The School of Business. A student with a major in any one of the business departments may qualify for a high school teaching certificate. It is recommended that all students make this preparation whether or not they have decided to teach.

The student's regular advisor, a member of the staff of his major department, will also serve as his business education advisor.

The major will be any one of the majors offered by the business department in which the student is registered. The minor will be Education. The minor will consist of a minimum of 24 semester hours of professional education courses, listed below:

Ed. 101—Introduction to Education .....	3
Ed. 102—Human Growth and Development .....	3
Ed. 201—Psychology of Learning .....	3
Ed. 202—Routine School Management, or Ed. S553— Educational Tests and Measurements .....	3
Ed. 381—Foundations of Teaching Methods .....	3
Ed. 391C—Materials and Methods in High School Business Subjects .....	3
Ed. 415-416—Directed Student Teaching. ....	6

The general education requirements, except for the three courses listed below, are met by the general requirements for all students in The School of Business. These courses must be taken:

Mgmt. 313—Economics of Consumption .....	3
One 3-hour course in personal and community health .....	3
One additional semester of biologic or physical science .....	3

**Endorsement Requirements.** The prospective business teacher must complete a business core requirement of 18 semester hours including 3 hours of accounting, 3 hours of economics, and an additional 6 hours from at least two of the following fields: Business Law, Introduction to Business, Business Mathematics, and Business Communications.

In addition, he must have endorsed on his certificate the names of the specific subjects he is qualified to teach. He should prepare for as many specific subjects as possible.

The course requirements for specific endorsements are listed below. The same subject may be applied toward satisfaction of the core and of specific endorsement requirements.

Bookkeeping—Acctg. 201-202, 272, and 311, 331, or 321 .....	10
Business Arithmetic—satisfied by Math. 121 and 301 .....	6
Business English—satisfied by Sec. Sci. 351 or 352 .....	3
Business Law—Mgmt. 301-302 .....	6

Business Machines—Mgmt. 271 or Sec. Sci. 371 .....	3
Consumer Education—Mgmt. 313 .....	3
Economics—Principles of Economics, 6 hours; and two additional Upper Division finance or economics courses .....	12
Office or Clerical Practice—Sec. Sci. 431 or 432 .....	3
Salesmanship—Mktg. 301 and 361 .....	6
Secretarial Practice—endorsement in: Office Practice, Typewriting, and Shorthand .....	15
Shorthand—minimum of 6 hours in shorthand courses including at least one Upper Division course .....	6
Typewriting—minimum of 6 hours in typewriting courses including at least one Upper Division course .....	6

# THE SCHOOL OF EDUCATION

The School of Education in Memphis State University has the following objectives:

To be an articulated part of the general and cultural program of the university.

To recruit desirable candidates for the teaching profession.

To provide a program of teacher education which promotes the growth and development necessary for successful teaching.

To assist in placing teachers.

To provide professional service to public schools in the service area.

To develop and carry out a continuing program of educational research.

The School of Education offers several curricula leading to the degree of Bachelor of Science. Candidates for this degree take certain required courses and elect others within this school. In preparing for particular teaching fields or areas, candidates are also required to take courses in The School of Business, and in the School of Arts and Sciences.

The work of the School of Education is conducted through the departments of Curriculum and Instruction, Educational Administration and Supervision, Health and Physical Education, Home Economics, Music Education, and the Training School.

Courses leading to the degree of Master of Arts are offered in the Graduate School by various departments of the School of Education. Graduate requirements and graduate course offerings are listed in the Graduate School BULLETIN.

The work of the School of Education leading to the Bachelor of Science degree is organized into two divisions: (1) The Lower Division, consisting of the work of the freshman and sophomore years, and (2) The Upper Division, consisting of the work of the junior and senior years.

## REQUIREMENTS FOR GRADUATION

Each candidate for a baccalaureate degree in the School of Education must meet the general university requirements with respect to registration, residence, fees, and health.

Each candidate must earn credit, with a satisfactory scholastic average (2.0) in approved courses totaling at least 132 semester hours, at least 39 hours of which must be taken in courses numbered above 299.

No student other than a Physical Education major may apply more than 4 semester hours of basic Physical Education to the minimum degree requirement of 132 semester hours.

At least sixty semester hours of the credit applied on the bachelor's degree must be taken in liberal content. Courses in the following fields offered in the School of Arts and Sciences will meet this requirement:

art (non-applied), biology, languages, English, history, journalism (non-applied), mathematics, music (non-applied), philosophy, physical sciences, psychology, social sciences, and speech (non-applied).

The following courses taken in the School of Education will meet this requirement:

Health 101, Education 102, 451, 452, 453.

Home Economics 171, 181, 241, 471.

Each candidate must complete:

- (a) Four semesters of Physical Education activity courses, except those students completing two years of AF-ROTC, in which case only two semesters are required.
- (b) The Professional Education Program required for state certification with a "C" average.
- (c) The General Education Program for Teachers.
- (d) The major requirements of the department in which the student declares a major.
- (e) Requirements for certification in two or more teaching areas (combined minimum of 36 semester hours) with a "C" average in each, unless special exception is made by the Director of the School of Education.

#### **The Professional Education Program**

Completion of 24 semester hours in the Professional Education Program is required of all students in the School of Education. The program is divided into "core" professional and "specialized" professional. The core professional will be completed by all students. Each student will elect to complete either the elementary or secondary specialized Education described below:

**CORE PROFESSIONAL EDUCATION.....12 semester hours**

Education 101 .....(3)

Education 102 .....(3)

Education 201 .....(3)

Education 202 .....(3)

**SPECIALIZED PROFESSIONAL EDUCATION.....12 semester hours**

(a) Elementary

(b) Secondary

Education 385 .....(3)

Education 381 .....(3)

Education 386 .....(3)

\*Education 391 ( ) .....(3)

Education 425 .....(6)

Education 415 .....(3)

Education 416 .....(3)

\*Education 391 ( ) in a specified subject field is not offered more than once each year. The student should take this course during the junior year. Students taking 381 cannot receive credit in 391W.

### **The General Education Program**

The minimum General Education Program shall consist of not less than 45 semester hours of credit earned in the following prescribed areas of instruction with minimum credit being distributed as given below:

<b>AREA</b>	<b>Minimum Semester Hours</b>	<b>Required Courses</b>	<b>Elective Courses</b>
<b>Communication</b>	<b>6</b>	English 111 (3) English 112 (3)	
<b>Health, Personal Development, or Home and Family Living</b> (Two fields must be represented)	<b>6</b>	Health 101 (3)	3 semester hours from Home Ec. 171, 241, 471, Psy. 111, 213, 214, Soc. 211, 212.*
<b>Humanities</b> (Three fields must be represented)	<b>12</b>	English 211 (3) English 212 (3)	6 semester hours from any two of the fields of Art, Drama, Advanced Foreign Language, History, Philosophy, Speech, Music or Psychology
<b>Natural Sciences</b>	<b>9</b>	One 2-semester-sequence course (6) (Biology, Chemistry Physics or Geography 111, 112)	3 semester hours from any Physical Science including Geography 111, 112
<b>Social Sciences</b> (Two fields must be represented)	<b>9</b>	History 221 (3) History 222 (3)	3 semester hours from a Social Science other than History
<b>Mathematics*</b>	<b>3-4</b>	Mathematics 101 (4) for Elementary Teachers, 101 (4) or 121 (3) for Secondary Teachers	

\*A performance record in mathematics and additional credit in this area of the prescribed general education core may be substituted for Mathematics 101. Majors in the School of Business and in Industrial Arts may use Mgmt 313 or IA 362 as the elective in the Personal Development area.

### **Major Requirements**

Each department in the School of Education is described on the following pages. In addition to a statement of the general purposes and functions of the department, there is a complete statement concerning major and minor requirements, and a description of all courses taught within the department.

## SPECIFIED SUBJECT MATTER ENDORSEMENT PROGRAM (For Tennessee Certification)

### Broad Areas

1. Core Curriculum .....32 semester hours

Endorsement for core curriculum requires 32 semester hours distributed over the broad fields of language arts, social studies, science, library service, and others. For specific course requirements advice from the Chairman of the Department of Curriculum and Instruction is necessary.

2. Elementary School Teachers (Grades 1-9) .....69 semester hours

Art 111, 301 .....(6)

Biology .....(6)

English 111, 112, 211, 212 .....(12)

Geography 121, 122, 351 .....(9)

Health 101, and 241 or 231 .....(6)

Health 301 or 302 .....(3)

History 221, 222, 431 .....(9)

Library Service 321 .....(3)

Mathematics 101 .....(4)

Music 221, 222 .....(4)

Physical Education 350, 391 .....(4)

Speech 491 .....(3)

3. Special Education .....21 semester hours

An applicant for endorsement in the following areas of special education shall meet the requirements for endorsement as a regular classroom teacher grades 1-9.

For each type of endorsement desired, the applicant must meet the specialized requirements listed below for that area of endorsement. This preparation may be taken at either the undergraduate or graduate level. Courses listed in these endorsements, if already taken in meeting other requirements, may be counted.

- a. Educable Mentally Retarded .....21 semester hours

Special Education 480, 481, 482 .....(9)

Special Education 427 and Educ. 425 or 426 .....(6)

Education S553 .....(3)

Education 476, 102, 351, Speech 466 or 467, Art 301 .....(3)

- b. Crippling and Special Health Conditions .....21 semester hours

Special Education 480, 483, 484, 485 .....(12)

Special Education 428 and Educ. 425 or 426 .....(6)

Special Education 481, 482, Speech 466, 467 or 463,  
or Educ. 456 .....(3)

### Subject Matter Areas

1. Art .....25 semester hours

Art 111 and 313 .....(6)

Art 115, 121, 213, 215, and 361 .....(15)

Art 301 .....(3)

Educ. 391A or 391W .....(1-3)

2. Arts (Fine and Industrial) .....34 semester hours
- Art 111 and 313 .....(6)
- Art 121 and 215 .....(6)
- Art 301 .....(3)
- Educ. 391A or 391W .....(1-3)
- Industrial Arts .....(18)
- (Industrial Arts shall be represented by not less than 6 semester hours each in three of the areas listed, namely; graphic arts, woods and construction, art metals, general electricity, crafts, and mechanics.)

3. Business

The specialized areas of endorsement earned in Business require as basic preparation a minimum of 18 semester hours including a core requirement of 12 semester hours in Accounting, Economics, and two of the following: Business Law, (Mgmt. 301), Introduction to Business, (Mgmt. 101), Business Mathematics, (Math. 121 or 301), and Business Communication (Sec. Sci. 351 or 352).

The individual subject endorsements are given below with the courses required for their satisfaction in addition to the basic courses (the same course may be applied in both areas):

- a. Bookkeeping .....10 semester hours
- Acctg. 201, 202 (Fundamentals) .....(6)
- Acctg. 272 (Lab) .....(1)
- Acctg. 311 (Intermediate) or 331 (Cost) .....(3)
- b. Business English .....3 semester hours
- Sec. Sci. 351 (Business Report Writing) or
- Sec. Sci. 352 (Business Letter Writing) .....(3)
- c. Business Law .....6 semester hours
- Mgmt. 301, 302 (Business Law) .....(6)
- d. Business Machines .....3 semester hours
- Mgmt. 271 (Clerical Office Machines) or
- Sec. Sci. 371 .....(3)
- e. Business Arithmetic .....6 semester hours
- Satisfied by Math 121 and 301 .....(6)
- f. Consumer Education .....3 semester hours
- Mgmt. 313 (Economics of Consumption) .....(3)
- g. Economics .....12 semester hours
- Econ. 211-212 .....(6)
- Mgmt. 301 and 311, 312, 341, 413, or 451 .....(6)
- h. General Business .....9 semester hours
- Mgmt. 101, Mgmt. 301, Math 301 .....(9)
- i. Office and Clerical Practice .....3 semester hours
- Sec. Sci. 431 or 432 .....(3)
- j. Salesmanship .....6 semester hours
- Mktg. 301 (Principles) .....(3)
- Mktg. 361 (Salesmanship) .....(3)
- k. Secretarial Practice .....3 semester hours
- Sec. Sci. 431 (Applied Secretarial Practice) .....(3)
- and certification in shorthand and typing.

1. Shorthand .....6 semester hours  
     Sec. Sci. 211, 212, or 212 and one higher course .....(6)
- m. Typewriting .....6 semester hours  
     One typing course above Sec. Sci. 121, 122, or 222 .....(6)
4. English .....24 semester hours  
     Engl. 111, 112, 211, 212 .....(12)  
     Practical English Grammar (i.e. Engl. 442) .....(3)  
     English or American Novels (Engl. 311, 312, 313, 451, 452) (3)  
     English Electives .....(6)
5. Foreign Language .....18-24 semester hours  
     Endorsement in a single foreign language requires 18 semester hours based upon 2 or more units of high school credit, otherwise 24 semester hours are required. Endorsement in two foreign languages may be earned with 30 semester hours with not less than 12 semester hours in addition to 2 units of high school credit in each language.
- a. French  
         Courses selected in conference with instructors.
- b. German  
         Courses selected in conference with instructors.
- c. Spanish  
         Courses selected in conference with instructors.
- d. Latin  
         Courses selected in conference with instructors.
6. Health Instruction .....18 semester hours  
     Health 101 .....(3)  
     Health 231 .....(3)  
     Health 241 .....(3)  
     Health 301 .....(3)  
     Health 302 .....(3)  
     Selected Electives: Health 476, Soc. 312, Home Ec. 471, Sp. Educ. 485 (Health 416 on recommendation of the Departmental Chairman only) .....(3)
7. Health and Physical Education .....28 semester hours  
     Health .....15 semester hours  
         Health 101 .....(3)  
         Health 231 .....(3)  
         Health 241 .....(3)  
         Health 301 .....(3)  
         Health 302 .....(3)  
     Physical Education .....13 semester hours  
         Phys. Educ. 327, or 328 .....(3)  
         Phys. Educ. 351 .....(3)  
         Phys. Educ. 382 .....(3)  
         Phys. Educ. 391 .....(2)  
         Phys. Educ. 342 .....(2)
8. Home Economics (Non-Vocational) .....30 semester hours  
     Home Economics 111, 211, 312 .....(9)  
     Home Economics 241, 242, 341 .....(9)  
     Home Economics 291, 471, 481, 482 .....(12)

9. Industrial Arts .....30 semester hours
  - a. Graphic Arts
    - Industrial Arts 151 .....(3)
    - Electives .....(0-7)
  - b. Woods and Construction
    - Industrial Arts 341 .....(3)
    - Electives .....(0-7)
  - c. Metals
    - Industrial Arts 372 .....(3)
    - Electives .....(0-7)
  - d. General Electricity
    - Electives .....(0-9)
  - e. Crafts
    - Electives .....(0-10)
  - f. Design
    - Industrial Arts 141 .....(3)
    - Industrial Arts 252 .....(2)

Eighteen semester hours in two or more of the areas (a)–(e) will endorse the student in the areas in which he has a minimum of eight (8) semester hours.
10. Library Service
  - a. Librarian .....18 semester hours
    - Library Service 321, 322, 323, 411, 412, 421 .....(18)
  - b. Teacher-Librarian .....12 semester hours
    - Library Service 321 (Elementary), 323, 411, 421 .....(12)
    - 322 (Secondary)
11. Mathematics .....18 semester hours
  - Mathematics 141, 142 .....(10)
  - Mathematics Electives .....(8)
12. Mathematics and Physical Science .....51 semester hours
 

Endorsement in the combined area of mathematics and physical science requires the following:

  - Mathematics 141, 142 .....(10)
  - Mathematics Electives .....(5)
  - Chemistry 111, 112 .....(8)
  - Physics 211, 212 .....(8)
  - Geography and Geology (Science) .....(8)
  - Electives in Mathematics and/or Physical Science .....(12)
13. Music
  - a. Endorsement in School Music .....39 semester hours
    - Minimum core listed below .....(30)
    - Class Instruction in Instruments .....(3)
    - (Mus. Ed. 132, 134, 136)
    - Appropriate Materials and Methods .....(6)
    - (Mus. Ed. 331, Musc. 417.)
  - b. Endorsement in Instrumental Music .....45 semester hours
 

(see Chairman of Department of Music Education)

**Minimum Core**

Theory and Harmony .....	(12)
(Musc. 111A, 111B, 112A, 112B, 211A, 211B)	
Applied Music .....	(12)
(To be selected from courses in Class Instruction and in Individual Lessons with the advisor's approval)	
Conducting (Music 317) .....	(3)
History and Appreciation .....	(3)
(Musc. 119, 319, 401, or 402)	

**14. Science**

- a. Broad Field of Science .....32 semester hours  
Three of the following fields are required: biology, chemistry,  
geology, physics. The student who has this endorsement can  
be certified to teach in each field in which he has a minimum  
of 8 semester hours credit.
- b. Biology .....16 semester hours  
Biology 141, 142 .....(8)  
Biology Electives .....(8)
- c. Chemistry .....16 semester hours  
Chemistry 111, 112 .....(8)  
Chemistry Electives .....(8)
- d. Physics .....16 semester hours  
Physics 211, 212 .....(8)  
Physics Electives .....(8)
- e. General Science .....16 semester hours  
Biology 111, 112, 141, 142 (Must include a sequence) ....(8)  
Chemistry or Physics .....(6)  
Science Elective .....(2)

**15. Social Studies**

- For endorsement in the broad field of social studies the  
following is required: .....36 semester hours
- American History 221, 222 .....(6)
  - European or World: History 111, 112 .....(6)
  - Sociology: Sociology 211, 212 .....(6)
  - Geography: Geography 111, 112 .....(6)
  - Economics: Economics 211, 212 .....(6)
  - Government: Political Science 221, 222 .....(6)
- For endorsement in individual subjects the following  
requirements are listed:
- a. Economics .....12 semester hours  
Economics 211, 212 .....(6)  
Economics Electives .....(6)
  - b. Geography .....12 semester hours  
Geography 121, 122, 351 .....(9)  
Geography Electives .....(3)
  - c. Government .....12 semester hours  
Political Science 221, 222 .....(6)  
Government Electives .....(6)
  - d. History .....18 semester hours  
History 111, 112 .....(6)  
History 221, 222 .....(6)

History Electives: Any sequence of 300 or 400	
history courses, American or European .....	(6)
e. Sociology .....	12 semester hours
Sociology 211, 212 .....	(6)
Sociology Electives .....	(6)
16. Speech .....	15 semester hours
Speech 111 .....	(3)
Speech 466 or 491 .....	(3)
Speech 245 .....	(3)
Speech 492 .....	(3)
Speech Electives .....	(3)

**DEPARTMENT OF CURRICULUM AND INSTRUCTION****Mr. Rumble, Chairman**

Mrs. Algee, Mr. Brownlee, Mr. Haynes, Mr. Krause, Miss Linskie,  
Miss McFaddin, Miss Moore, Mr. Nothorn, Miss Powell, Mr. Richardson,  
Mrs. Richardson, Mr. Smith, Mr. Underwood

The Department of Curriculum and Instruction has as its primary objective the training of teachers for the public schools of Tennessee. Requirements for certification are set up by the State Board of Education. Requirements for graduation are set up by the School of Education. The student's faculty advisor will aid the student in preparing a program of study leading to both certification and graduation.

The Department of Curriculum and Instruction offers two majors: one in secondary education and one in elementary education; and four minors: one in secondary education, one in elementary education, one in library service and one in special education. Course requirements for these majors and minors are described below:

**MAJORS**

1. The Secondary Education Major.....33 semester hours  
Students may major in secondary education by completing 33 semester hours in professional education which must include the following:

**CORE PROFESSIONAL EDUCATION (12 semester hours)**

- 101—Introduction to Education.....(3)
- 102—Human Growth and Development.....(3)
- 201—The Psychology of Learning.....(3)
- 202—Routine School Management and Teaching Aids (3)

**SPECIALIZED PROFESSIONAL EDUCATION (12 semester hours)**

- 381—Foundations of Teaching Methods in High School Subjects .....(3)
- \*391—Materials and Methods in High School Subjects (Subject Field specified).....(3)
- 415—Directed Student Teaching in High School Subjects (Subject Field specified).....(3)
- 416—Directed Student Teaching in High School Subjects (Subject Field specified).....(3)

**SPECIFIED DEPARTMENTAL ELECTIVES (9 semester hours)**

Choose three courses from the following: Education 351, 417, 451, 452, 453, 456, 461, 466, 471, 472, 476, S541, S553, S566, S584. Library Service 322, 323, 421, and Special Education courses.

\*Education 391 in a specified subject field is not offered more than once each year. The student should take this course during the junior year.

2. The Elementary Education Major.....33 semester hours  
Students may major in elementary education by completing 33 semester hours in professional education which must include the following:

**CORE PROFESSIONAL EDUCATION (12 semester hours)**

- 101—Introduction to Education.....(3)
- 102—Human Growth and Development.....(3)
- 201—The Psychology of Learning.....(3)
- 202—Routine School Management and Teaching Aids (3)

**SPECIALIZED PROFESSIONAL EDUCATION (12 semester hours)**

- 385—Foundations of Teaching Methods in Elementary School Language Arts and Social Studies..(3)
- 386—Foundations of Teaching Methods in Elementary School Science and Mathematics.....(3)
- 425—Directed Student Teaching in the Elementary School .....(6)

**SPECIFIED DEPARTMENTAL ELECTIVES (9 semester hours)**

Choose from the following: Education 325, 351, 423, 424, 426, 429, 442, 443, 444, 445, 446, 451, 452, 453, 456, 471, 473, 476, S541, S553, S566, Library Service 411, 421, and Special Education Courses.

**MINORS**

1. The Secondary Education Minor.....24 semester hours  
Students who complete the general education program before graduation may minor in secondary education by completing 24 semester hours in professional education which will include the core professional education of 12 semester hours and the specialized professional education of 12 semester hours as described for the major in secondary education. To be eligible to complete the specialized professional education program the student must have met the requirements for one area of endorsement, grades 7-12.
2. The Elementary Education Minor.....24 semester hours  
Students who complete the general education program before graduation may minor in elementary education by completing 24 semester hours in professional education which will include the core professional education of 12 semester hours and the specialized professional education of 12 semester hours as described for the major in elementary education. To be eligible to complete the specialized professional education program the student must have met the requirements for the areas of endorsements, grades 1-9.
3. The Library Service Minor.....18 semester hours  
Students may minor in library service by completing the program of 18 semester hours in library service which the student will plan with the instructor. The student desiring to be certified in this area would need to complete the general education program.
4. The Special Education Minor.....21 semester hours  
Students who meet the requirements for endorsement as a regular elementary classroom teacher grades 1-9 may minor in special education by completing 21 semester hours of specialized requirements.

**DESCRIPTION OF COURSES****Education****101—Introduction to Education. (3).**

An overview of the whole field of education with emphasis on those things a student should know at the beginning of his professional career.

**102—Human Growth and Development. (3).**

An attempt is made to help the student better understand child nature and development, to appreciate the fact that all behavior is caused, and to form the habit of seeking bases for both normal and abnormal behavior in situations at home, at school, and in the community. (Replaces and absorbs Education 206, Child Psychology.)

**201—The Psychology of Learning. (3).**

The psychology of learning as applied to learning activities under the guidance of the school. (Replaces and absorbs Education 308, Educational Psychology).

**202—Routine School Management and Teaching Aids. (3).**

An attempt is made to help the student better understand routine school management, the importance and use of records and reports, and to develop skills in the use of teacher-made and standardized tests, audio-visual materials, and other sensory aids.

**325—Observation, Participation, and Practice in the Elementary School. (3).**

A preparatory course for directed student teaching in the elementary school.

**351—Special Problems in Instruction. (1-3).**

Individual investigation in the area of instruction. Prerequisite: experience as a teacher or satisfactory evidence of being qualified to benefit by such a course.

**381—Foundations of Teaching Methods in High School Subjects. (3).**

Emphasis is placed on ways in which learning experiences may be organized to insure effective pupil learning. Prerequisite: Completion of the core-professional program.

**385—Foundations of Teaching Methods in Elementary School Language Arts and Social Studies. (3).**

Approved techniques for developing good habits of listening, speaking, reading, and writing will be studied and observed in practice. An analysis will be made of the social problems in which the children of the elementary school are interested. Units of work will be developed. Prerequisite: Completion of the core-professional program, and enrolled in Education 386.

**386—Foundation of Teaching Methods in Elementary School Science and Mathematics. (3).**

A study of the natural environment as a child would view it. The types of activities that would challenge a child are carried out in the classroom. Prospective teachers are acquainted with the mathematical processes required of the elementary school child. An insight is given into the reasons why certain methods are used. Prerequisite: Completion of the core-professional program, and enrolled in Education 385.

**391—( ) Materials and Methods in High School ————. (3).**

Objectives, nature of content, and grade placement of courses offered at the secondary school level in the subject matter area under

consideration. Tools of instruction needed to carry on the work of the area; organization of courses and units of instructional teaching procedures and practice. Prerequisite: Education 381 and satisfactory preparation in the subject matter field.

Students registered in Education 391 ( ) will suffix or append one of the letters below to the course number so as to indicate the subject matter area to be covered. A student who is unable to schedule a methods course in his field of endorsement before graduation may register in Education 391W, provided he can arrange for a one-hour conference period each week with the chairman of the department preparing him to meet requirements in his endorsement area. Students may register for Education 391 ( ) more than once, but may not repeat the same endorsement area for credit.

Endorsement Areas (semester hours indicated in parenthesis):

- |                                   |                           |
|-----------------------------------|---------------------------|
| A. Art (3)                        | I. Latin (3)              |
| B. Biology (3)                    | J. Mathematics (3)        |
| C. Business                       | K. Music (3)              |
| a. Vocation Business Subjects (3) | L. Physical Education (3) |
| b. General Business Subjects (3)  | M. Physical Science (3)   |
| D. English (3)                    | N. Social Science (3)     |
| E. French (3)                     | O. Spanish (3)            |
| F. German (3)                     | P. Speech (3)             |
| G. Home Economics (3)             | Q. Health (3)             |
| H. Industrial Arts (3)            | W. —————(1 or 4)          |

411—School and Community Relationships (3).

The relationship of the school to the community movements and organizations concerned with health and safety, government and civic life, religion, occupations, extension services, children's organizations and clubs, adult education, cultural education, community cooperative movements, etc.; relationships of the community to such school activities as attendance, athletics, lunch, libraries, extra-curricular program, home study, records and reports, guidance, etc.

415—Directed Student Teaching in High School Subjects. (3-4)

Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

416—Directed Student Teaching in High School Subjects. (3).

For the student who has had Education 415 and desires student teaching in a second endorsement area.

417—Directed Student Teaching in High School Subjects. (3).

For the student who has had Education 415 and desires student teaching at a different level.

423—Directed Student Teaching in the Kindergarten. (3).

Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

424—Directed Student Teaching in the Kindergarten. (3).

For the student who is taking or has had Education 423 and desires additional experience.

425—Directed Student Teaching in the Elementary School. (6).

Observation of the growth and development of pupils and of methods of teaching; participation in school activities, culminating in assuming responsibility for teaching entire groups.

**426—Directed Student Teaching in the Elementary School. (3).**

For the student who is taking or has had Education 425 and desires additional experience.

**NOTE ON DIRECTED STUDENT TEACHING:** Directed Student teaching courses provide opportunity for observation of good teaching practices and for actual teaching experience under the direction of supervising teachers. Conferences with the supervising teacher, and with members of the Department of Curriculum and Instruction and other departments offering methods courses are provided for in the student's program. The requirements for enrolling in student teaching courses are as follows:

1. Classification as a senior and at least one semester of residence at Memphis State University.
2. An overall "C" average, and a "C" average in Education courses.
3. Completion of the core professional program and the two methods courses of the specialized professional program. Enrollment in a methods course concurrent with enrollment in the directed student teaching course may be approved.
4. Completion of the elementary school teacher endorsement requirements if at the elementary school or kindergarten school level, or completion of a secondary school endorsement area if at the secondary school level, with a "C" average.
5. Filing of an application to enroll in a directed student teaching course with the Chairman of the Department of Curriculum and Instruction sixty days before the beginning of the semester in which the student desires to do his student teaching.
6. Approval of the Chairman of the Department of Curriculum and Instruction.

#### **Advanced Undergraduate Courses**

The course numbers below preceded by "S" indicate graduate courses open to advanced undergraduate students who lack only thirty-six semester hours credit toward graduation.

**429—Workshop for Teachers in the Elementary School. (3-6).**

A course designed to meet the needs of in-service teachers by offering an opportunity to work cooperatively on problems which are real to teaching situations and which meet the needs of the individual. Prerequisite: Teaching experience and consent of the director of the workshop.

**442—The Teaching of Natural Science in the Elementary School. (3).**

An advanced course in the study of the natural environment as a child would view it. A survey of suitable equipment and materials for the elementary classroom and limited experience at carrying on experiments at the child's level.

**443—The Teaching of Mathematics in the Elementary School. (3).**

An advanced course acquainting prospective and experienced teachers with the mathematical processes required of the elementary child and giving an insight into reasons why certain methods are used.

**444—The Teaching of the Social Studies in the Elementary School. (3).**

An analysis will be made of social problems, needs, and interests which are basic to the curriculum of the elementary school child. The role of the social studies and its relationship to the total school program will be emphasized.

**445—The Teaching of Children's Literature in the Elementary School. (3).**

A course designed to improve the methods of teaching children's literature in the elementary school. Units on story telling, dramatization, choral speech work, and the correlation of literature with the content subjects will be carried out.

**446—The Teaching of Reading in the Elementary School. (3).**

A study of reading methods designed for the development of efficient independent readers. Materials and activities appropriate for each developmental stage.

**448—Workshop in the Reading Program. (3-6).**

Through the media of group study, discussion, demonstrations, directed observation, and laboratory work, participants will have opportunity to formulate plans for their reading program as to content, methods and techniques, materials, and evaluative criteria.

**451—History of Education. (3).**

This course traces through European history some of the more important educational problems of modern times as they have been affected by the social and political facts of history, by the contributions of some of the leading educational theorists, and by institutional practices.

**452—History of Education in the United States. (3).**

This course aims to trace, describe, and evaluate, in the light of accepted facts, the development and growth of our educational practice, institutions, and theories from the beginning of colonial life to the present time.

**453—Philosophy of Education. (3).**

The purpose of this course is to furnish a guide to the philosophical treatment of, and to develop in the student some facility in critical and systematic thinking about, educational problems.

**456—Educational Sociology. (3).**

Group or social behavior in the educational process; sociological factors involved in the interaction of pupils, teachers, administrators, and community.

**461—Curriculum Problems and Trends in the Secondary School. (3).**

This course is designed to afford some help in the clarification of secondary school educational purposes and in determination of appropriate learning activities. It deals with the functional teaching objectives, ways of attaining these objectives, methods of establishing relationships among the school subjects, developing the core curriculum, and the organization and use of units of work.

**462—Curriculum Problems and Trends in the Elementary School. (3).**

This course deals with general educational objectives and means of achieving them; the role of the various school subjects and their relationships, and with the organization and use of units of work in the core curriculum.

**466—Audio-visual Aids to Teaching. (3).**

Audio-visual materials will be examined from the point of view of their effectiveness and possible utilization in the school program. Opportunity will be provided to develop skills in the use of materials and equipment. The technical and administrative problems of integrating audio-visuals into the school curriculum will be studied.

**471—Principles and Procedures of Guidance. (3).**

An introduction to the principles of guidance with emphasis being placed upon the function of guidance in relation to child and adolescent needs.

**472—The Psychology of Adolescence. (3).**

A study of the characteristics of the adolescent stage of development that should be taken into account in the planning and teaching of secondary school courses of study, in the supervision of extra-class activities in the secondary school, and in guiding and counseling with adolescents.

**476—Mental Hygiene and the School. (3).**

Guidance for the teacher in working on her own personality development and a study of the mental hygiene of the child as affected by his total environment, past and present.

**486—Elementary School Administration. (3).**

A study of the major aims of the elementary school; planning the daily program through integration and related subjects; learning to keep and interpret various types of records and reports. Considering the importance of proper teacher-pupil, teacher-teacher, teacher-administrator, and teacher-parent relationship. Special emphasis on the P. T. A. program in Tennessee.

**S541—Diagnostic and Remedial Reading in Elementary and Secondary Schools. (3).**

An analysis of why certain children fail to read adequately. The development of a program in reading that will tend to correct reading deficiencies.

**S553—Educational Tests and Measurements. (3).**

This course deals with the principles underlying the construction of objective tests, and with the problems relating to the use and interpretation of school measurements by teachers and administrators. Practice is given in the construction of new-type and essay tests, and in the elements of statistical procedure necessary for the interpretation of school measurements.

**S566—The Pupil Activity Program. (3).**

A study of current philosophy and practice in regard to responsibilities of teachers, supervisors, and administrators for those phases of educational practice which are essential for the educational program, but are not considered as part of general classroom procedure.

**S584—High School Administration. (3).**

This course is offered as a concise description of modern useful practices in organizing and administering secondary schools, types of high schools, selection and assignment of staff, program of studies, records, management of buildings and grounds, pupil personnel, guidance, selection, retention and improvement of teachers, and interpreting the school to the public.

**GRADUATE COURSES**

Courses preceded by "G" are described above.

- G415—Directed Student Teaching in High School Subjects (3).
- G416—Directed Student Teaching in High School Subjects (3).
- G417—Directed Student Teaching in High School Subjects (3).
- G423—Directed Student in the Kindergarten (3).
- G424—Directed Student Teaching in the Kindergarten (3).
- G425—Directed Student Teaching in the Elementary School (6).
- G426—Directed Student Teaching in the Elementary School (3).
- G427—Student Teaching with the Educable Mentally Retarded (3).
- G428—Student Teaching with Pupils who have Crippling and Special Health Conditions (3).
- G429—Workshop for Teachers in the Elementary School (6).
- G442—The Teaching of Natural Science in the Elementary School (3).
- G443—The Teaching of Mathematics in the Elementary School (3).
- G444—The Teaching of the Social Studies in the Elementary School (3).
- G445—The Teaching of Children's Literature in the Elementary School (3).
- G446—The Teaching of Reading in the Elementary School (3).
- G448—Workshop in the Reading Program (3-6).
- G451—History of Education (3).
- G452—History of Education in the United States (3).
- G453—Philosophy of Education (3).
- G461—Curriculum Problems and Trends in the Secondary School (3).
- G462—Curriculum Problems and Trends in the Elementary School (3).
- G466—Audio-Visual Aids to Teaching (3).
- G471—Principles and Procedures of Guidance (3).
- G472—The Psychology of Adolescence (3).
- G476—Mental Hygiene and the School (3).
- G480—Education of Exceptional Children (3).
- G481—Education of the Mentally Retarded (3).
- G482—Education of the Brain-Injured Child (3).
- G483—Education of Hospitalized and Homebound Children (3).
- G484—Education of Cerebral Palsied Children (3).
- G485—Introduction to Social Case Work (3).
- 501—Educational Thought (3).
- 504—Social Foundations of Education (3).
- 506—Comparative Education (3).
- 521—Educational Psychology (3).
- 526—Techniques of Counseling (3).
- 527—Diagnostic Techniques in Guidance (3).
- 528—Educational and Occupational Information (3).
- 529—Administration of the Guidance Program (3).
- 536—Educational Statistics (3).
- 541—Diagnostic and Remedial Reading in Elementary and Secondary Schools (3).
- 553—Educational Tests and Measurements (3).
- 557—Modern Methods in Education (3).
- 561—Fundamentals of Curriculum Development (3).
- 562—Research in Curriculum and Instruction. (3).
- 566—The Pupil Activity Program. (3).
- 591—Special Problems.
- 593-6—Thesis. (3 or 6).

### **Library Service**

#### **321—Books and Related Library Materials for Children. (3).**

Primarily a reading course based on materials suitable for elementary school children. Includes a study of their leisure-time interests and curricular needs; criteria for evaluating books and related materials, such as magazines, phonograph records, radio programs and films; aids used in their selection; types of literary and informational books; authors, illustrators, and publishers; story-telling and other devices for encouraging reading.

#### **322—Books and Related Library Materials for Young People and Adults. (3).**

The course is presented in the same manner as Books for Children but is adapted to materials on the junior and senior high school level. An examination will be made of a wide variety of materials from the standpoint of curricular needs, reading interests and personal growth of adolescent students. Attention will also be given to an examination of adult books to enable librarians to work more effectively with faculty and community groups.

#### **323—Reference Materials. (3).**

This course includes a study of reference materials useful in various areas of the elementary and secondary school curriculum. Basic reference materials in every general field are studied thus making the course desirable for teachers as well as librarians. Practice in handling reference questions is provided.

#### **411—Organization of Materials. (3).**

Includes instruction and practice in simplified procedures for acquisition, preparation, organization and circulation of books and related library materials, such as pamphlets, periodicals and audio-visual aids.

#### **412—Cataloging and Classification. (3).**

Introduction to principles underlying the classification of books and simplified techniques of cataloging books and other materials. The abridged Dewey Decimal Classification scheme is used and the use of printed cards is stressed.

#### **421—School Library Administration. (3).**

The library is treated as a service agency in this course. Emphasis is given to the place of the library in the instructional and guidance program of the school and the philosophy and purposes of libraries and librarianship. Included are such problems as standards and evaluation, public relations and publicity, support, housing and equipment, training of assistants and library study hall relationships. Field trips are made to different types of libraries.

### **Special Education**

427—Student Teaching with the Educable Mentally Retarded. (3).

Orientation, observation, teaching with mentally retarded pupils. (Education 425 or 426 is a prerequisite to Special Education 427).

428—Student Teaching with Pupils who have Crippling and Special Health Conditions. (3).

Orientation, observation, teaching with pupils who have crippling and special health conditions (Education 425 or 426 is a prerequisite to Special Education 428).

480—Education of Exceptional Children. (3).

A survey course which deals with the general problems involved in the education of exceptional children.

481—Education of the Mentally Retarded Child. (3).

Designed to aid students in understanding the mentally retarded child. Includes basic educational techniques and methods applicable to mentally retarded children.

482—Education of the Brain-Injured Child. (3).

This course includes a study of basic concepts and principles designed to familiarize the student with special procedures and materials adaptable to the brain-injured child.

483—Education of Hospitalized and Homebound Children. (3).

Orientation to the general and specific problems of the hospitalized and homebound child.

484—Education of Cerebral Palsied Children. (3).

A study of the characteristics and needs of the cerebral palsied child. Including: skills and techniques in providing individual institutions, treatment and prevention, emotional and social problems, and vocational rehabilitation.

485—Social Case Work in Education. (3).

An introductory course designed to acquaint the student with the concepts and principles underlying social case work.

**DEPARTMENT OF HEALTH AND PHYSICAL EDUCATION****Mr. Hatley, Chairman**

**Mr. Cobb, Mr. Curlin, Mr. Davis, Mr. Ehlers, Mrs. Floyd, Mr. French,  
Miss Hull, Miss Iling, Mr. Johnson, Mr. Morris, Miss Roane, Mr. Scott,  
Miss Yates, Miss Young, Mr. Vanatta, Mr. Waites**

The purpose of the health and physical education courses are to improve the habits and principles of health for individuals; to develop the individual physically, and to train teachers of health and physical education. The aims specifically are: (a) to guide youth in the conservation and improvement of their own health; (b) to cultivate in the student socially desirable attitudes and traits; (c) to emphasize the acquiring of skills in recreational physical activities that can be used pleasantly and profitably in adult life; (d) to provide a corrective and adaptive program for students with a physical weakness or handicap; and (e) to acquaint prospective teachers with the importance of health and physical education in order that the school may make its proper contribution to the promotion of health and wholesome living to the individual, the family, and the community.

Four semesters of physical education activity courses are required of all students during the first four semesters in school, except those completing two years of AF-ROTC, in which case only two semesters are required. All students are required to take Physical Education 100 for one semester. At the completion of Physical Education 100, students may complete their requirement by selecting activity courses on the 200 level. No student other than a physical education major may apply more than four semester hours of basic physical education to the minimum degree requirement of 132 semester hours. On request of a physician, a student unable to take regular physical education is required to register for an adaptive class.

Members of varsity and freshman athletic squads, with the exception of majors in health and physical education, upon recommendation of the coach concerned, may substitute activity on athletic squads for Physical Education 100.

**MAJOR IN HEALTH AND PHYSICAL EDUCATION**

A major in this department consists of not less than 41 specified semester hours for women, and 42 specified semester hours for men in health and physical education courses.

The requirements for a major in health and physical education are as follows:

For Women .....	41 semester hours
Health 101, 231, 241, 301, 302 .....	(15)
Phys. Ed. 310, 327, 328, 342 .....	(10)
Phys. Ed. 351, 382, 391 .....	( 8)
Phys. Ed. 100, 241, 243, 245, 246, 253, 260, 261 .....	( 8)
For Men .....	42 semester hours
Health 101, 231, 241, 301, 302 .....	(15)
Phys. Ed. 281, 282, 283, 284 .....	( 4)
Phys. Ed. 310, 328, 342 .....	( 7)
Phys. Ed. 351, 382, 391 .....	( 8)
Phys. Ed. 100, 212, 217, 241, 245, 246, 260, 261 .....	( 8)

In addition to the above, majors are required to take Biology 130, 131, 132.

**MINOR IN HEALTH AND PHYSICAL EDUCATION\***

The requirements for a minor in health and physical education are as follows:

For Women .....	28 semester hours
Health 101, 231, 241, 301, 302.....	(15)
Phys. Ed. 342, 351, 382, 391.....	(10)
Phys. Ed. 327 or 328.....	(3)
For Men .....	30 semester hours
Health 101, 231, 241, 301, 302.....	(15)
Phys. Ed. 328, 342, 351, 382, 391.....	(13)
Phys. Ed. 281 or 282 or 283 or 284.....	(2)

\*Prerequisites for above courses should be checked.

**MAJOR IN HEALTH**

A special degree program for Graduate Nurses is available in the Department of Health and Physical Education. A major in health consists of 36 semester hours as follows: Health 101, 150, 231, 241, 301, 302, 450, 416 or 417, 470, 480, with six hours of electives from the following: Health 151 or Biology 330, Health 250, Health 414 or 415, Health 476 or Special Education 485, Health 417. (A student may elect Health 417 on the recommendation of the instructor provided he has had or is enrolled in Health 416).

**PROGRAM IN CORRECTIVE THERAPY**

A cooperative program exists between the School of Education and Kennedy Veterans Hospital for training Exercise Therapists in the field of Corrective Therapy which enables the student to meet Civil Service requirements.

The School of Education requires a second endorsement area; this may be satisfied by physical education majors completing the following prescribed 18 semester hours: Physical Education 271, 343, 344, 444, and Psychology 312.

**DESCRIPTION OF COURSES****Health**

101—Health Personal and Community. (3).

Course content shall include the physiological basis of correct living including a minimum of fundamental biological facts; the psychological aspects of human behavior as they affect individual health conduct and mental hygiene; the agents of disease and modern scientific methods employed in their control; the procedures for maintaining health through the provision and utilization of public health agencies and related cooperative agencies; and the individual's responsibility for maintaining a healthful modern community. The teaching of the course will be slanted toward the development of habits and ideals which will motivate the student to translate health knowledge into health behavior. Three hours lecture.

150—Introduction to Public Health. (3).

A study of the organization and structure of the official and voluntary health agencies, international, national, state, and local. Consideration is given to the aims, objectives and underlying principles as they are related to the nurse and teacher.

151—Control Methods of Preventable Diseases. (3).

A study of the factors which relate to the control of communicable and non-communicable disease. Modern techniques of prevention, immunization and control of spread of disease through medical and nursing supervision are stressed.

231—Safety and First Aid. (3).

Instruction for students who wish to familiarize themselves with first aid and safety measures. First aid materials are used in practice; recognition of injuries and emergency treatment practiced; first aid and safety for the home, school, and community are covered. Three hours lecture.

241—Nutrition. (3).

See Home Economics 241.

250—Maternal and Child Health. (3).

A study of the trend in development of community programs based on modern concepts of adequate maternal and child care. Emphasis is placed on the public health significance of improvement of social, economic and physical welfare of mothers and children through cooperation of all community agencies. Materials, techniques and resources used in solving maternal and child health problems are considered.

301—Health Education in Schools. (3).

This course is centered around an analysis of the health problems of school age children in the home, school, and community. A study is made of the health education program with consideration of health needs and educational procedures and principles involved in coordinating health instruction with other areas of the curriculum. Current materials and available resources for health teaching are surveyed. Emphasis is placed on improving health behavior through sound health teaching. Three hours lecture.

302—Health Service in Schools. (3).

This course is a study of the methods of organizing and implementing health measures in schools and of relating the health services of schools to other community agencies; techniques for determining health status through screening processes; the teacher's function in the conservation of health through the detection of remedial defects and follow-up for correction; the school's responsibility for the promotion of health through environment and special health services; factors in environment, sanitation in the home, school, and community as it affects the school child will be considered.

321—Advanced Safety and First Aid. (2).

A course for students who wish to qualify as Red Cross Approved Instructors in First Aid. Emphasis will be placed upon the techniques of demonstration and presentation of first aid principles and methods. Upon the successful completion of this course, a Red Cross First Aid Instructor's Certificate will be awarded. Prerequisite: Health 231, or ARC Advanced Certificate.

414—Problems of the Exceptional Child. (3).

See Psychology 414.

415—Education of Exceptional Children. (3).

See Education 480.

**416—Observation in Community Agencies. (3).**

This course is planned to introduce the student to a wide variety of community health and welfare agencies. Opportunity to visit in official and volunteer agencies is provided. Purpose, objectives, functions and programs are presented by representatives in each agency. Application for the course should be made at least 60 days before the student desires to enroll in the course. Prerequisite: Permission of Chairman of Department.

**417—Field Practice in Community Agencies. (3).**

This course offers an opportunity for the student to observe and practice under supervision all phases of public health activities in which he would be expected to participate in professional life. Experience is planned to meet the needs of the individual student. Enrollment is limited to students who meet certain departmental requirements. Application for the course should be made at least 60 days before the student desires to enroll in the course. Prerequisite: Permission of Chairman of Department.

**434—Problems in Health Education. (1-3).\***

Designed to afford opportunity for prospective or in-service school and professional personnel to work individually or in groups on health education factors in the solution of practical problems. Prerequisite: Approval of instructor.

**450—Supervision and Administration in Health Agencies. (3).**

A study of the basic functions, principles and procedures of supervision and administration as applied to health agencies. Emphasis is placed on the relationship and responsibilities of personnel in planning, promoting, improving and evaluating the total health activities in the family centered health services. Legal and legislative aspects of health activities are included.

**470—Trends and Problems in Public Health. (3).**

A review of the historical development and current trends in professional nursing as a community service; the various needs and demands for medical care; the contribution of the professional personnel in providing for total health services and education.

**476—Mental Hygiene. (3).**

See Education 476.

**480—Health Statistics. (3).**

A study of the statistical method including collection, analysis and presentation of numerical data pertaining to health problems.

**PHYSICAL EDUCATION****100—Orientation and Conditioning. (1).**

One or two semesters required of all students.

**200—Selected Physical Activities. (1).**

Two or three semesters required of all students selected from activities listed below which will be offered during the two semesters of the year. Prerequisite: one semester Physical Education 100.

**\*Note—Credit may be earned in only one of the following courses:  
Health 434, Phys. Ed. 434.**

MEN	WOMEN	CO-EDUCATIONAL
100-Orientation and Conditioning	100-Orientation and Fundamental Rhythms	241-Folk and Social Dance
211-Inactive and Adaptive	251-Inactive and Adaptive	242-Tap Dance
212-Tumbling, Wrestling, and Trampoline	252-Soccer, Speedball, Field Hockey, and Volleyball	243-Modern Dance
213-Boxing and Weightlifting	253-Basketball, Tumbling, Softball, Track and Field Events.	244-Modern Dance (Advanced)
214-Touch Football and Basketball	255-Badminton	245-Archery and Bowling
215-Tennis and Bowling	256-Tennis	
216-Golf and Recreational Games	257-Golf	
217-Volleyball and Softball	258-Beginning Swimming	
218-Badminton	259-Intermediate Swimming	
219-Swimming	262-Fencing	
220-Handball	263-Equitation	
	264-Tumbling & Trampoline	

#### PHYSICAL EDUCATION MAJORS

100-Orientation, Touch Football, Basketball, and Conditioning (men)	212-Tumbling, Trampoline, and Wrestling	245-Archery and Recreational Games
100-Orientation and Fundamental Rhythms (Women)	217-Volleyball and Softball	246-Tennis and Golf
	241-Folk and Social Dance	260-Swimming (Beginning and Intermediate)
	243-Modern Dance	261-Swimming (life saving)

271—Community Recreation. (3).

Study of the scope of community recreation; basic social values, organization and relation to other social institutions. Includes a study of program content and leadership methods with particular emphasis on playground methods and activities. Three hours lecture.

272—Club and Camp Leadership. (3).

Theory and procedure in organization and leadership of club groups and camping activities; practical laboratory work with local groups and camping projects. Two hours lecture; two hours laboratory.

281—Fundamentals and Techniques of Football. (2).

Fundamentals of football coaching with special emphasis on blocking, tackling, passing, punting, catching; principles of line and back-field work; and the manner of playing the various positions; formations of plays, generalship, signal systems, and scouting; some coaching problems, study of the rules. Two hours lecture supplemented by demonstration on field.

282—Fundamentals and Techniques of Basketball. (2).

This course deals with the theory and practice of basketball, coaching, history of the game, and study of the rules. A study is made of offensive and defensive systems, and drills for the development

of fundamental skills in the game are taught. Training and conditioning of basketball squads are covered; classroom work supplemented with practice on gymnasium floor. Two hours lecture.

**283—Fundamentals and Techniques of Track and Field. (2).**

A study of the accepted forms of starting, hurdling; distance running, pole vaulting, discus and javelin throwing, and sprinting; study of physical conditions affecting speed, endurance and fatigue; the selection and preparation of contestants for the various track and field events; managing and officiating the games and meets; study of rules. Two hours lecture supplemented by demonstration on track.

**284—Fundamentals and Techniques of Baseball and Softball. (2).**

This course covers the theory and practice of baseball coaching with attention given to the coaching of the individual, in base running, fielding, batting, and pitching; detailed study is made of each position; offensive and defensive team play; officiating; scoring; study of rules. Two hours lecture supplemented by demonstration.

**310—History and Principles of Physical Education. (2).**

Study of the beginnings of physical education systems and practices with developments down to modern times. Changes as related to political and economic cycles are traced with the underlying principals common to all epochs shown. The final effort is to show the place of a sound physical education program in the modern school systems with a proper appreciation of its historical development. Two hours lecture.

**327—Materials and Methods in Team Sports for Women. (3).**

Fundamentals of teaching and coaching team sports, including history, rules, skills, and teaching progressions. Practical laboratory experience in intramural and activity classes. Two hours lecture, two hours laboratory. Prerequisite: Phys. Ed. 100, 253.

**328—Materials and Methods in Individual and Dual Sports. (3).**

Study of teaching methods, instruction and participation in individual recreational sports, tumblings, mass gymnastics, and conditioning activities; includes means of providing facilities for these activities. Two hours lecture, two hours laboratory. Prerequisite: P. Ed. 245, 246.

**332—Tests and Measurements in Health and Physical Education. (3).**

A study is made on the various tests in the field of Health and Physical Education; including uses and interpretation of elementary statistical techniques with application in Health and Physical Education.

**342—Corrective and Adaptive Physical Education. (2).**

A theory course including lectures, demonstrations, and problems of the mechanics of physical deformities and their causes. Abnormalities of the spine, feet, and other postural and functional conditions are discussed. Treatment by active and passive movements is applied in corrective physical education class for freshmen and sophomores. Two hours lecture with laboratory arranged.

**343—Kinesiology. (3).**

Analysis of bodily movement in terms of the muscular forces operating on the bones. Prerequisite: Bio. 131, 132.

**344—Physiology of Exercise. (3).**

Lectures dealing with the physiological adjustment of organs and systems to exercise. Prerequisite: Bio. 131, 132.

**350—Methods and Materials in Rhythms for Elementary School. (2).**

Basic theory, participation, techniques, materials and teaching methods in rhythmic activities for grades one through nine. Course will include laboratory experiences. Prerequisite: P. Ed. 241.

**351—Methods and Materials in Rhythms and Dance. (3).**

Basic theory, participation, techniques, materials, and teaching methods in rhythmic activities from the first grade through the twelfth. Course will include laboratory experiences. Prerequisite: P. Ed. 241.

**382—Organization and Administration of Health and Physical Education. (3).**

A study of administrative problems of health and physical education, including curriculum, facilities, buying and caring for equipment, general class organization, and organization of an intramural program. Three hours lecture. Prerequisite: P. Ed. 310

**391—Materials and Methods in Physical Education for Elementary Schools. (2).**

This course covers the theory and activities for physical education in grades one through nine; including teaching methods, program planning and participation in stunts, mass gymnastics, relays, informal games, team games, individual and dual sports and mimetics. Practical experience is gained through observing and directing play activities for children in training school. Two hours lecture. Course will include laboratory experiences.

**421—Special Problems in Athletic Coaching. (3).**

Students may register for a special program in the coaching of athletics. They may work under the supervision of a staff member in carrying out a research project. This course may also be carried on as organized group study. It may be taken only one time for credit. Prerequisite: Coaching experience or approval of instructor.

**434—Problems in Physical Education. (1-3)\***

Designed to afford opportunity for prospective or in-service school and professional personnel to work individually or in groups on physical education factors in the solution of practical problems. Prerequisite: Approval of instructor.

**444—Clinical Practice. (6).**

Supervised clinical practice in the Department of Physical Medicine and Rehabilitation Service at the Kennedy V. A. Hospital. Instruction will be given in the conditioning, ambulation and self care of patients with neurological, pulmonary, geriatric, neuropsychiatric, speech, blind, spinal cord injuries, cardiac, and other types of disabilities.

\*Note—Credit may be earned in only one of the following courses: Health 434, Phys. Ed. 434.

**GRADUATE COURSES**

Courses preceded by "G" are described above.

**G421 (—) Special Problems in Athletic Coaching. (3).****G434—Problems in Health Education and Physical Education. (3).****G444—Clinical Practice. (6).****501—Foundations of Physical Education. (3).****526—Organization and Administration of Group Recreation. (3).**

**DEPARTMENT OF HOME ECONOMICS****Miss Henderson, Chairman****Miss Whitaker, Mrs. Sands**

The Department of Home Economics provides professional education qualifying for teaching in junior and senior high schools. It also includes courses in personal living, human relations and related art.

A program may be planned to meet the entrance requirements set up by the American Dietetics Association for postgraduate internship.

**MAJOR**

A major consists of 36 hours of credit in home economics and 15 hours in related courses as follows:

Lower Division .....	18 semester hours
171 .....	(3)
111, 211 .....	(6)
241, 242 .....	(6)
291 .....	(3)
Upper Division .....	18 semester hours
312, 341 .....	(6)
342 or 421 .....	(3)
471, 481, 482 .....	(9)
Related Courses .....	15 semester hours
Chemistry 111, 112 .....	(8)
Biology 341 .....	(4)
Sociology 211 .....	(3)

**MINOR**

A minor open to any student in the School of Business Administration or the School of Arts and Science consists of 18 hours of credit in Home Economics as follows:

Lower Division .....	12 semester hours
111, 181 or 211 .....	(6)
241, 242 .....	(6)
Upper Division .....	6 semester hours
471 .....	(3)
One other upper division course.....	(3)

**DESCRIPTION OF COURSES****Clothing and Textiles**

111—Clothing Selection and Construction. (3).

Standards in selecting and purchasing; construction of cotton garments to meet individual needs. One hour lecture; four hours laboratory.

211—Clothing Construction. (3).

Fundamental principles of clothing construction, fitting and finishing garments to develop techniques in handling wool, silk and synthetic fabrics. Prerequisite: Home Economics 111. One hour lecture; four hours laboratory.

**312—Textiles. (3).**

A study of textile fibers used for clothing and house furnishing. Two hours lecture; two hours laboratory.

**421—Family Clothing. (3).**

Tailoring, construction, care and repair of clothing suited to family needs. Prerequisite: Home Economics 111, 211. One hour lecture; four hours laboratory.

**Foods and Nutrition****241—Elementary Nutrition. (3).**

Nutritive value of food, factors influencing body food requirement and health. Open to freshmen. Three hours lecture.

**242—Food Selection and Preparation. (3).**

Principles underlying the selection and preparation of foods with an introduction to the planning and serving of meals. Open to freshmen. One hour lecture; four hours laboratory.

**341—Meal Preparation and Table Service. (3).**

Nutrition fundamentals in individual and family dietaries, meal planning, marketing and table service for various occasions. Prerequisite: Home Economics 241, 242. One hour lecture; four hours laboratory.

**342—Nutrition and Diet Therapy. (3).**

Dietary problems applicable to the prevention and treatment of diseases in which therapeutic diets are of major importance. Prerequisite: Home Economics 341, and Chemistry 112. Two hours lecture; two hours laboratory.

**351—Quantity Cookery. (3).**

Practical problems in preparing and serving foods for large groups. Use of standardized recipes, calculation of food costs, and use of institution equipment. Prerequisite: Home Economics 342. One hour lecture; four hours laboratory.

**352—Institution and Management Practice. (3).**

Observation and practice in handling problems of organization and management of quantity food service.

**Human Relations and Related Art****171—Personal Development and Human Relations. (3).**

Individual and group adjustment, influences contributing to successful marriage and family life. Three hours lecture.

**181—Art in Everyday Life. (3).**

A study of the art elements and art principles through an analysis of everyday objects. Three hours lecture.

**291—Health of the Family and Home Nursing. (3).**

Building health habits, protection against illness and accidents; simple procedures in caring for the sick. Open to freshmen. Two hours lecture; two hours laboratory.

**471—Child Development and Family Relationships. (3).**

Courtship, marriage and achievement of satisfaction in present day family life; social, emotional, mental growth of the child. Three hours lecture.

**473—Nursery School Practicum. (3).**

Participation in and direction of various nursery school activities. Prerequisite: Home Economics 471. One hour conference; five hours laboratory.

**474—Nursery School Practicum. (3).**

For the student who has had or is taking Home Economics 473 and desires additional experience.

**481—Home Furnishing and Equipment. (3).**

Principles of design and color theory applied to the selection and arrangement of the house and its furnishing. One hour lecture; four hours laboratory.

**482—Home Management and Consumer Education. (3).**

Problems in management of money, time, and energy; study of consumer goods; guides to buying. Three hours lecture.

**Home Economics Education**

Methods of Teaching Home Economics. (See Education 391.)

Supervised Teaching in Home Economics. (See Education 415, 416, 417.)

**DEPARTMENT OF MUSIC EDUCATION****Mr. Harris, Chairman**

**Mr. Birmingham, Mr. DeFrank, Mr. Franklin, Mr. Eaheart, Miss Gandy,  
Mr. Gilbert, Mr. Haggh, Mr. Hale, Mr. Hermann, Mrs. Maxwell,  
Mr. Robertson, Mrs. Taylor, Mr. Terry, Mr. Vergos**

The Department of Music Education has for its primary objective the musical training of two types of students:

- (1) Those who plan to become teachers, supervisors, and directors of music in elementary and secondary schools.
- (2) Those who plan to become classroom teachers in elementary schools.

Secondarily, the department provides experiences in listening and in performing which are planned to develop in the student body as a whole an appreciation of music.

**MAJORS AND MINORS**

Students in the Department of Music Education may either:

- (1) Major in School Music, or
- (2) Major in Instrumental Music, or
- (3) Major in one of these areas and minor in the other.

Completion of the following steps is necessary to complete a major.

- A. General education program of 45 hours, and other requirements set up by the school of the university in which the student is enrolled.
- B. Professional Education program of 24 hours, including the 12 hours of core professional courses and the 12 hours of either elementary or secondary specialized professional courses.
- C. Endorsement area. (Select one area as a major, or select one as a major and the other as a minor.)

**(1) School Music.**

Mus. Ed. 321, Mus. 417 .....6 semester hours.  
Mus. Ed. 132, 134, 136 .....3 semester hours.

**(2) Instrumental Music.**

Mus. Ed. 331, Mus. 417 .....6 semester hours.  
Applied Music .....6 semester hours.

(One instrument of major emphasis)

D. Music Education Core.	For a Minor	For a Major
Mus. 111A, B; 112A, B; 211A, B; 212A, B—		
Music Theory .....	12	16
Mus. 119—Survey of Music Literature.....	0	3
Mus. 301—Counterpoint .....	0	3
Mus. 308—Form and Analysis.....	0	3
Mus. 315—Instrumentation .....	3	3
Mus. 317—Conducting .....	3	3
Mus. 401, 402—History of Music.....	3	6
Music Ensembles .....	0	8
Applied Music .....	12	12

(This may include both Class In-

struction and Individual Instruction

but must meet the approval of the

student's advisor.)

Totals	33	57
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**MUSIC EDUCATION MINORS**

A student who majors in some other department of the University may complete a minor in School Music or in Instrumental Music, by

complying with steps "A", "B", "C" above, and in step "D" substituting in the Music Education Core the 33 hours specified for a minor.

### **Description of Courses**

(For other courses in music, see listing in the Department of Music, School of Arts and Sciences.)

- 130, 131—Class Instruction in Piano. (1 credit each semester).
- 132, 133—Class Instruction in Stringed Instruments. (1 credit each semester).
- 134, 135—Class Instruction in Woodwind Instruments. (1 credit each semester).
- 136, 137—Class Instruction in Brass Instruments. (1 credit each semester).
- 138—Class Instruction in Percussion Instruments. (1 credit each semester).
- 139, 140—Class Instruction in Voice. (1 credit each semester).

The Music Education major must be a competent performer in one field. However, his duties as a teacher frequently require him to have a limited ability in playing all of the major instruments of band and orchestra. The above courses teach both the playing techniques of these instruments and also the methods of instructing others. There are no additional fees. Practice facilities are provided. Two hours laboratory.

172—Music Education Orchestra. (1 credit each semester).

174—Music Education Band. (1 credit each semester).

These courses provide familiarity with materials and routines suitable for use with elementary and secondary school orchestras and bands. The courses enable a student who plays his major instrument in the university orchestra or the university band to gain needed playing experience on other instruments, and also enable voice, piano, and organ majors to gain ensemble experiences. Either course may be repeated for additional credit, or students may participate without credit. Three hours laboratory per week.

221—Classroom Music Activities, Grades 1-3. (2).

An activities approach to music education problems of the classroom teacher. Methods of teaching music and an understanding of scales, keys, rhythms, and music notation are approached through experiences in making music. Does not require prior training in music. Not open to music majors.

222—Classroom Music Activities, Grades 4-6. (2).

Continuation of Mus. Ed. 221, which is a prerequisite.

321—Music Supervision in Grades 1-9. (3).

The teaching, supervision and administration of music; basic concepts, philosophy, and objectives of music education.

325—Teaching for Appreciation in Grades 1-9. (3).

The listening experience and other related music activities as an approach to the appreciation of music. Prerequisite: Instructor's permission. Three hours lecture.

331—Materials and Methods in Instrumental Music. (3).

Developing the band or orchestra; balance and tone quality; conducting and interpretation; problems of intonation; literature for solos, ensembles and groups of all grades.

421—Special Problems in the Teaching of Music. (1, 2, or 3).

This course provides for class or individual study of the problems and opportunities faced by the person who teaches music in the schools. For classroom teachers, music teachers and supervisors, principals, and administrators.

## DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION

**Mr. Crader, Chairman**  
**Mr. England**

The Department of Educational Administration and Supervision does not offer courses at the under-graduate level. This department provides specialized graduate courses designed to prepare students to become elementary school principals, high school principals, supervisors, and city or county superintendents.

A guide for students who plan professional study in this area at the graduate level may be found in the GRADUATE SCHOOL BULLETIN, together with a listing of all courses offered.

### GRADUATE COURSES

Courses preceded by "G" are described under Curriculum and Instruction.

- G411—School and Community Relationships. (3).
- G486—Elementary School Administration. (3).
- 537—Techniques of Educational Research. (3).
- 571—City and County School Supervision. (3).
- 572—High School Supervision. (3).
- 573—Elementary School Supervision. (3).
- 581—Public School Organization and Administration. (3).
- 582—School Finance and Business Management. (3).
- 583—School Housing and Transportation. (3).
- 584—High School Administration. (3).
- 586—Basic Theories of Educational Administration. (3).
- 587—Contemporary Issues in Educational Leadership. (3).
- 588—School Law. (3).
- 589—Human Relations in School Administration. (3).
- 591 (—) Special Problems.
- 593-6—Thesis. (3-6).
- 599—Seminar in Educational Leadership. (1-6).

### TRAINING SCHOOL Mr. Woody, Principal

The training school, located on the campus, is a public school comprising grades 1-9. This school is operated by Memphis State University as a part of the public school system of the City of Memphis. The training school enrolls approximately 700 students, and offers a broad program of training for these children. This school serves the teacher training program as a laboratory in which prospective teachers observe, study, and practice the art of teaching. Many and varied opportunities are offered university students to study children, to study a school program, and to participate in teaching activities. Through the training school, arrangements have been made for the use of other city schools for purposes of teacher training. Student experiences with the teachers of the training school, and with the many other fine teachers in the area, are considered an integral part of preparation for a teaching career.

### NURSERY AND KINDERGARTEN SCHOOL

Memphis State University conducts a Nursery and Kindergarten School administered by the principal of the Training School and in cooperation with the Department of Curriculum and Instruction and the Department of Home Economics. The School is a non-profit institution and tuition charges are determined by the cost of operation.

## DEAN'S LIST

Fall Semester, 1958-59

- |                              |                          |
|------------------------------|--------------------------|
| Aaron, Kathleen C.           | *McBride, Barbara K.     |
| *Adams, Charles W.           | McDowell, Richard D.     |
| Andreas, Scott Racey         | Meade, Flora Ann H.      |
| Ashcraft, Thomas Cole        | Miller, Gayle F.         |
| Bailey, Sara Joy             | Moore, Peggy Sue R.      |
| *Borah, Patricia S. DeLaney  | Moore, Polly Sue         |
| Bratton, Norma Jean          | *Morgan, Sam Burge       |
| Brewer, Michael B.           | Morris, William Randolph |
| Buchalter, Robert            | Mullins, Elizabeth Ann   |
| Burkhead, Marvin E.          | Neal, Gwendolyn Earl     |
| Clark, Virginia Anne         | Peters, Martha Ann       |
| Covington, Jimmie A.         | Pickens, Margie Day      |
| *Davis, David John           | Pilkinton, Betsy J. C.   |
| Daze, Grace S. B.            | Ray, Jimmie Ann          |
| Finch, Marion Joyce Shanklin | Rice, Linda Jane         |
| Frederick, Mary Anne         | Roberts, Joanna Dare     |
| Frizzell, Beverly K.         | Schuele, Mary F.         |
| Gibson, David Allen          | Scott, Jane Elizabeth    |
| *Giem, Yvonne Louise         | Scott, Thomas Gerald     |
| Harris, Alvin S.             | Shaw, Laura Jo           |
| Harris, Eleanor G.           | Shelton, Peggy Joyce     |
| Harvey, Sara K. Taft         | Simpson, Ernest Ray      |
| *Haskew, Martha Jean Offutt  | Smith, Sarah Anne        |
| Howell, Joe Burton           | Smith, Yvonne T.         |
| Johnson, Mary K.             | Southern, James Howard   |
| Jones, Marquis E.            | Stamm, Betty A. Jones    |
| Jorgenson, Wanda A.          | *Tapp, Charles M.        |
| Kelley, Bobby Jerald         | Taylor, Sally B.         |
| *Key, Norma Jackson          | Thomas, Dorothy G.       |
| *King, Shirley Joy           | Travillian, Mary L. W.   |
| Lane, Terry Kay              | Vick, Otus K.            |
| Martin, James F. Jr.         | Weaver, Thomas Todd      |
| Mason, James Dean            | Weigel, Ann Walker       |
| Massey, Audrey Jean          | Williams, Mahala H.      |
| * All Grades A               |                          |

**DEAN'S LIST****Spring Semester, 1958-59**

- |                              |                                |
|------------------------------|--------------------------------|
| *Aaron, Kathleen Clark       | Landis, Carl David             |
| *Adams, Charles Willard      | Martin, James F. Jr.           |
| Aiken, Charles Shelton       | McCoy, Janice Marie            |
| Andreas, Scott Racey         | McDaniel, Dana Sue Frazier     |
| Bennett, Martha Diane        | Meade, Flora Ann Hester        |
| Bernardini, Isabelle Boaz    | Meadows, Gene Howell           |
| *Borah, Patricia Sue Delaney | Morgan, Sam Burge              |
| Burkhead, Marvin Edward      | Morris, William Randolph       |
| Burton, Virginia Wade Morris | Mullins, Carolyn Elizabeth     |
| *Clark, Virginia Anne        | Neal, Gwendolyn Earl           |
| *Covington, Jimmie Allen     | Nicholson, Eddy Gene           |
| Craig, Angela Branyan        | *Nobles, Dorothy Mae           |
| Davis, David John            | Pantella, Frederick            |
| Daze, Grace Sarah Battersby  | Parker, James Canon            |
| Dulaney, Betty Jo Hopson     | Pilkinton, Betsy J. Cartwright |
| Engelberg, Lorraine          | Ramsey, Claire Elizabeth       |
| Ensley, Helen Oliver         | Riggs, Virginia Baynes         |
| Falsone, Anne Marie McMahon  | Roberts, Joanna Dare           |
| Faught, Linda Dare           | Schuele, Mary Ford             |
| Finch, Marion Joyce Shanklin | Shelton, Peggy Joyce           |
| Franklin, Stanley Phillip    | Simpson, Ernest Ray            |
| Garner, Robert Harlan        | Smith, Warren Byron            |
| Giem, Yvonne Louise          | Tapp, Charles M.               |
| Graham, Jeanne Frances       | Taylor, Sally Bernice          |
| Green, Christa               | Thomas, Dorothy Grissom        |
| Grubbs, Billie Edward        | Thompson, Barbara Kay          |
| Hallmark, James Douglas      | Thompson, Lougenia Ruth        |
| Hargrove, Barbara Kay        | Travillian, Mary Lusk Wynn     |
| *Haskew, Martha Jean Offutt  | *Vincent, Martha Annette       |
| Hauswald, Eva Maria          | Wallen, Edward Emmert          |
| Huey, Glenda Marie           | Warrington, Sarah Jane         |
| *Jackson, Kenneth Terry      | Waters, Elizabeth Jane         |
| *Johnson, Mary Kathryn       | Weaver, Thomas Todd Jr.        |
| Jones, Robert Clark          | Welsh, Steve L. Jr.            |
| Kaiser, Julia Avice          | Whalen, Michael James          |
| *Kelley, Bobby Jerald        | Whitehorn, John Frank          |
| *Kelley, Theta Ann           | Williams, Malcolm B.           |
| *Key, Norma Jackson          | Williams, Mary Louise          |
| King, Shirley Joy            | Wilson, Emily Jo               |

\* All grades A

# HONOR ROLL

Fall Semester, 1958-59

Honor Points	Honor Points
Adams, Charles W. .... 210	Hudson, Mary Lee ..... 145
Finch, Marion Joyce S. .... 195	Martin, James F. Jr. .... 145
Jones, Marquis E. .... 180	Shelton, Peggy Joyce ..... 145
Key, Norma Jackson ..... 180	Ward, Bernice H. .... 145
Moore, Polly Sue ..... 180	Braswell, Charlotte ..... 140
Smith, Sarah Anne ..... 175	Covington, Jimmie A. .... 140
Haskew, Martha O. .... 170	Eilert, Robert Ellis ..... 140
Morris, William Randolph ... 170	Fulghum, Anita Jane ..... 140
Schneider, Jane M. .... 170	Hardin, Barbara Ann ..... 140
Tapp, Charles M. .... 170	Harris, Alvin S. .... 140
Forsythe, Barbara B. .... 165	Johnson, Mary Kathryn .... 140
Jorgenson, Wanda A. .... 165	Lane, Terry Kay ..... 140
Mason, James Dean ..... 165	Parker, Patsy ..... 140
Roberts, Joanna Dare ..... 165	Priddy, Judith E. .... 140
Scott, Jane Elizabeth ..... 165	Ray, Dan Shelton ..... 140
Shaw, Laura Jo ..... 165	Seay, Willie Frances ..... 140
Stamm, Betty A. Jones ..... 165	Smith, Yvonne T. .... 140
Borah, Patricia S. D. .... 160	Bailey, Sarah Joy ..... 135
Davis, David John ..... 160	Burrow, Hilda K. .... 135
Franklin, Stanley P. .... 160	Cummings, Barbara L. .... 135
Giem, Yvonne Louise ..... 160	Daze, Grace S. B. .... 135
McBride, Barbara K. .... 160	Frederick, Mary Anne ..... 135
Weigel, Anne Walker ..... 160	Hallmark, James D. .... 135
Aaron, Kathleen C. .... 155	Henderson, Frances G. .... 135
Ashcraft, Thomas Cole .... 155	Kelley, Bobby Gerald ..... 135
Card, Bette Lois ..... 155	Maes, Janeen Carolyn ..... 135
Clark, Virginia Anne ..... 155	Meade, Flora Ann H. .... 135
Grilli, Gail P. .... 155	Miller, Gayle L. .... 135
Prater, Martha ..... 155	Mullins, Elizabeth Ann ..... 135
Rice, Linda Jane ..... 155	Pilkinton, Betsy J. C. .... 135
Burkhead, Marvin E. .... 150	Shaw, Nancy Sue ..... 135
Gaede, Joyce J. .... 150	Smith, Patty Lou ..... 135
Greer, Melvin E. .... 150	Vick, Otus K. .... 135
King, Shirley Joy ..... 150	Weaver, Thomas Todd ..... 135
McDowell, Richard D. .... 150	Williams, Mahala H. .... 135
Moore, Peggy S. R. .... 150	Bratton, Norma Jean ..... 130
Morgan, Sam Burge ..... 150	Bruce, Barbara Ann ..... 130
Peters, Martha Ann ..... 150	Buchalter, Robert ..... 130
Schuele, Mary F. .... 150	Canady, Judith Ann ..... 130
Simpson, Ernest Ray ..... 150	Dorsett, Dona C. .... 130
Taylor, Sally B. .... 150	Frizzell, Beverly Kay ..... 130
Thompson, Barbara K. .... 150	Harris, Eleanor G. .... 130
Travillian, Mary L. W. .... 150	Harvey, Sara K. Taft ..... 130
Welting, Mary Patricia ..... 150	Kaiser, Julia Avice ..... 130
Bernardini, Isabell ..... 145	McClurkin, Mona Jean ..... 130
Bodine, Walter Ray ..... 145	Ray, Jimmie Ann ..... 130
Brewer, Michael B. .... 145	Southern, James Howard .... 130
Fey, Beverly Lee ..... 145	Wilkes, Marilyn Elizabeth .... 130
House, Jack Lane ..... 145	Williams, James D. .... 130

**Honor Points**

Gilbert, Lois Noami .....	125
Knott, Robert Henry .....	125
Martin, Martha Frank .....	125
Massey, Audrey Jean .....	125
Somervell, Jere Lee .....	125
Woods, Anita Joyce .....	125
Andreas, Scott Racey .....	120
Banks, Thomas Wilson .....	120
Barker, Martha C. ....	120
Chambless, E. Wayne .....	120
Clew, Florence Ray .....	120
Dabbs, Jones Lester .....	120
Dickson, Dorothy Jo .....	120
English, Helen Diane .....	120
Falsone, Anne M. M. ....	120
Figiel, Chester .....	120
Freiberger, Harriet .....	120
Gibson, David Allen .....	120
Grubbs, Billie E. ....	120
Hall, Patsy Ann .....	120
Howell, Joe Burton .....	120
Hughes, William H. ....	120
Johnson, Elwood Troy .....	120
Jones, Robert E. ....	120
Koffman, James C. ....	120
Landis, Carl David .....	120
Mays, Beverly Sue .....	120
McEwen, Sarah Jean .....	120
Owen, Martha Eloise .....	120
Pickens, Margie Day .....	120
Ragan, Patsy Nan .....	120

**Honor Points**

Ritchie, Addisu L. ....	120
Scott, Thomas Gerald .....	120
Shepard, Gail Lenore .....	120
Smith, Mary E. H. ....	120
Stanfield, Juanita L. ....	120
Stephens, Patricia C. ....	120
Talley, Robert Jack .....	120
Thomas, Dorothy G. ....	120
Tobin, Mary Rose .....	120
Vaughn, Billie Sue .....	120
Warrington, Sarah J. ....	120
Wood, James Holland .....	120
Wray, Robert H. ....	120
Bates, Mary S. ....	115
Boatman, Norma Faye .....	115
Dehn, Richard Edward .....	115
Earney, Sue Ella .....	115
Gathings, Tamara .....	115
Gruggett, Beverly Jane .....	115
Herman, Sheila Ann .....	115
McCoy, Janice Marie .....	115
Neal, Gwendolyn Earl .....	115
Parkin, Charles E. ....	115
Prescott, Grace E. ....	115
Scudder, Barbara H. ....	115
Sherman, Richard C. ....	115
Skinner, Wendy K. ....	115
Spies, Valerie W. ....	115
Weeks, Billy Wayne .....	115
Williams, Carolyn R. ....	115

# HONOR ROLL

Spring Semester, 1958-59

Honor Points	Honor Points
Adams, Charles W. .... 210	Vincent, Martha Ann ..... 150
Thompson, Barbara K. .... 195	Whalen, Michael James ..... 150
Kelley, Bobby Jerald ..... 190	Wilson, Emily Jo ..... 150
Nobles, Dorothy Mae ..... 190	Andreas, Scott Racey ..... 145
Borah, Patricia S. D. .... 180	Graham, Jeanne F. .... 145
Clark, Virginia Anne ..... 180	Jennings, Barbara S. .... 145
Covington, Jimmie A. .... 180	Meade, Flora Ann ..... 145
Finch, Marion J. S. .... 180	Morgan, Sam Burge ..... 145
Kelley, Theta Ann ..... 180	Morris, William Randolph ... 145
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Taylor, Sally B. ....	130	Frederick, Mary Anne .....	120
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Waters, Elizabeth Jane .....	130	Hough, Joseph Edward .....	120
Wilkes, Marilyn Elizabeth ....	130	House, Jack Lane .....	120
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Spencer, Margaret A. ....	125	Wagner, Robert Benton .....	120
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## DEGREE CANDIDATES—JANUARY 30, 1959

### SCHOOL OF ARTS AND SCIENCES

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Margaret Edwards Patton

\*\*Sarah Ann Smith

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Royce F. Hunter  
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Robert Hunter Murdock  
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Milwee O. Pledger, Jr.  
Margaret O. Powers  
Addisu Lawrence Richie  
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B. R. Hester  
Jack Lorraine Horne  
Arthur Parry Jones  
Shirley Holland Lane  
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James Dean Mason  
James Calvin Mayer

James Lucas Monger  
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 Eugene Brewer Newton  
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 Alden A. Chivers  
 Edward Booker Crenshaw  
 George William Donjoian

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 Theodore Christian Kreh  
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 W. Doy Brown  
 Bob Eugene Childers  
 Douglas Dean Dunn  
 Elsie Marie Dunn  
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 Leburn Kirk  
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 Adrian Wallace McClaren

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 Velma Seaton Sells  
 Grady Steele  
 Harriett Lawrence Stiles  
 Alice Lovern Swygert  
 Frances Steere Tate  
 Helen R. Wadsworth  
 Elizabeth Hull Withers  
 Mary Taylor Yoe

DEPARTMENT OF AIR SCIENCE  
AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS

January 30, 1959

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Jimmie Ray Crane  
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*Martha Earle Prater	Freddie Carl Winburn
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*Christa Green	Valerie White Spies
*Donald Ernest Hampson	Renate Veikins
Eugene Hollahan	*Tommie Lou Williams

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Charles William Carroll	Pat Camp Harkins
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Dawson Clemens	Walter Thomas Harty
John Richard Coleman	Floyd Rubin Herzog
David John Davis	Robert F. Hickey
Nicholas Kent Demuth	James Richard Hood
*Dorothy J. Dickson	Gail Arlene Howard

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 Jon Phillip Jehl  
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 \*Harlan Benton Blount  
 Neil Bryan Blount, Jr.  
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 Harold Leon Cary  
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 Gerald Edward Clements  
 Tommy Jay Clevenger  
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 Rubert Clyde Regel  
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 Aubrey Wallace Rush, Jr.  
 William Daniel Rushing  
 Richard Nate Schiff  
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 Major Powell Trainum  
 \*Mary Wynn Travillian  
 Woodrow Wilson Wagster  
 James Thomas Young

## SCHOOL OF EDUCATION

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- |                            |                          |
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| Clara Bibb Bass            | Joy Ann Mewborn          |
| Elisabeth Rae Bassett      | Jane Reid Moore          |
| Mary Elizabeth Beavers     | *Polly Sue Moore         |
| Patricia Binder            | Dorothy Reinhardt Morris |
| Mary Elizabeth Borum       | Samantha Jane Morris     |
| M. Joyce Caldwell          | Philip R. Mulkey         |
| Virginia S. Caradine       | Dale Lee Overton         |
| Charlene Parker Card       | **James Canon Parker     |
| Betty Dean Carrington      | Regina Naomi Powers      |
| Lou Alice Clark            | Martha Jean Prather      |
| *Angela Branyan Craig      | Judith Elizabeth Priddy  |
| James Phillip Cross        | Durward Edmond Randolph  |
| William J. D'Aoust         | Hazel Beaver Richmond    |
| Carol Ann Dowdy            | Norma Rodgers            |
| Mary Corinne Edney         | Patricia Ann Selby       |
| Jacqueline Edwards         | Sadie Diane Smith        |
| Margaret Grace Gattis      | Henry W. Thompson        |
| Harry H. Gibson, Jr.       | Mary Ann Turner          |
| William Thomas Grimes      | Helen Kellett Tyrone     |
| Dorothy Anne Hair          | Bobby Gene Vaughan       |
| *Barbara Kay Hargrove      | Martha Annette Vincent   |
| Joann Hastings             | Joseph Curlin Wall       |
| Ruth Wahli Hatley          | Francis Larry Whaley     |
| Lawson Earl Hayes          | Marilyn Elizabeth Wilkes |
| James Edward Hockaday      | Emily Jo Wilson          |
| Leslie Marilyn Mann Landau | Sylvia Ward Womick       |
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| Louis Raymond Blount | Broadus Nolan Sharpe  |
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### MASTER OF ARTS

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| Richard Lee Brock        | Betty Jo Carter Doyle     |
| Gerald Parke Bugbee      | Helen Faye Ellis          |
| Francis Wade Callicutt   | Robbie Loraine Steele Fly |
| Imogene G. Carter        | Arthur Lloyd Gary         |
| Isaac Wayne Chatham      | Inez Clark Golden         |
| Mary Nell P. Combs       | Bettie Sue Greene         |

Robert Garland Hamilton  
 Herbert Maxwell Haney  
 Stanley S. Hipp  
 Ernest Ray Holt  
 Elgin Avon Howard  
 Thomas M. Hughes, Jr.  
 Solon Cash Hurt  
 Ozelle Howard Johnson  
 Cora E. Peeler Lamond  
 Adam B. Lanning III

Sara Frances Hall Lauderdale  
 Mattie Trafford Lindsey  
 Loula Green Mallory  
 Bobby Gerald Perry  
 Theodore Sfortunato  
 Jane Butler Simonton  
 Leslie T. Tolley  
 Michael James Whalen  
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## DEPARTMENT OF AIR SCIENCE

### AFROTC DETACHMENT NR 785

#### CANDIDATES FOR AIR FORCE COMMISSIONS

MAY 30, 1959

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 James F. Martin, Jr.

Philip R. Mulkey  
 James L. McCrory  
 Jeffrey T. McWhorter  
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 Jerry B. Vaughn  
 Don R. Wade  
 Floyd W. Weaver  
 Freddie C. Winburn

## DEGREE CANDIDATES—AUGUST 14, 1959

### SCHOOL OF ARTS AND SCIENCES

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 Jean Eileen Mitchell

Larry Allan Saunders  
 \*Jarrel Dalton Watkins

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\*James Edward Calhoun

#### BACHELOR OF SCIENCE

\*\*Joseph Kerry Bush  
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 Graper Warren Counce  
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 Elliot P. Denine, Sr.  
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 Beverly Woodall Eith  
 Russell Ellsworth Fisher, Jr.  
 Bennie W. Forrester

Raymond Edward Free, Jr.  
 Gary D. Hemingway  
 Charles Burrell Jackson  
 Charles Edward Jackson  
 Martha Joy James  
 Mary Kathryn Johnson  
 Lawrence L. Mariano, Jr.  
 Donald Wayne Mooney  
 Harry Eugene Murchison

- |                              |                         |
|------------------------------|-------------------------|
| Billy Joe Naylor             | James Arguyle Rodgers   |
| Milton Okeon                 | **Marie Phillips Ruffin |
| *Peggy Smith Oldham          | Georgia Wood Russell    |
| Bonnie Sue Ott               | James Boyd Saunders     |
| Frederick John Pantella      | Velma Bertha Shankman   |
| Bobby Gene Parrish           | *Gail Lenore Shepard    |
| *Barbara Ann Bondurant Pelot | Larry Garner Singleton  |
| *Margie Day Pickens          | Robert Stephen Tacker   |
| John Aubrey Pinkston         | Kenneth Denney Thomas   |
| Sidney E. Poindexter, Jr.    | **Barbara Kay Thompson  |
| Kate Ernestine Ray           | *Bernice Herline Ward   |
| **Virginia Baynes Riggs      | Leon L. Wilson          |
| Julius Bailey Roberson       | *James Holland Wood     |

## THE SCHOOL OF BUSINESS

### BACHELOR OF BUSINESS ADMINISTRATION

- |                               |                            |
|-------------------------------|----------------------------|
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| Lynda Louise Andrews          | Kemper Lynn Hock           |
| James Watkins Baxter          | Peter Warren Hookings      |
| James Earl Bishop             | William Harold Johnson     |
| Robert Charles Blackwell, Jr. | Charles Dallas Kilpatrick  |
| Jimmie Edward Brannon         | Aaron Jack Large           |
| William Edward Byrd           | Harold Willard Lawrence    |
| Dale Fredric Caplena          | John Alvin May             |
| *James Alexander Coles        | Thomas Lane Maynard        |
| Robert Gene Colvard           | Charles Richard Moore, Jr. |
| Bernie James Coulter          | Elbert Floyd Nix           |
| Samuel Lawson Crain           | *Norman Willis Phebus      |
| Raymond Lee Crossnine         | James Darwin Porter        |
| James Walter Dacus, Jr.       | James Robert Preston, Jr.  |
| Harry Earl Dillman            | James Jasper Roberts, Jr.  |
| Jack Paul Dolan               | Sidney Philip Samuels      |
| *William Chester Dorsey       | Robert Joe Seboly          |
| **Joyce Shanklin Finch        | *Ernest Ray Simpson        |
| John F. Franklin              | Robert Franklin Townsend   |
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| Harvey Lofton Gipson          | Robert Erwin Vollmer       |
| William Charles Goodman       | William Franklin Waits     |
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## SCHOOL OF EDUCATION

### BACHELOR OF SCIENCE

- |                          |                          |
|--------------------------|--------------------------|
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| Lola Maye Yopp Barr      | David Wynne Dunbar       |
| Louise Bernstein         | *Vera Fisher Ellis       |
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| Bradford Ball Childs     | Doris Wilson Garner      |
| Dwight Leon Cookson      | Dixie Lipford Holt       |
| Cornelia Mills Cotten    | James Sweed Ingram       |

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 \*C. Gentiliska Lindsey  
 William A. Majure  
 Franklin D. Mattox  
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 James Price Owen  
 Nadine M. Peeples  
 Katherine Hatcher Pharr  
 James Edward Pirtle  
 Charles Keeton Raney  
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 Bobbie Nell Speck  
 Betty Jannelle Spencer

Sharon K. Stafford  
 Laverne Clifton Steedley  
 Cyrille Annette Taylor  
 Joe Allen Taylor  
 William E. Thompson  
 James Oliver Townsend  
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 Dorothy Wood Wayne  
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 Dorothy Woolfolk  
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## GENERAL COLLEGE

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 Carl A. Fronabarger  
 Bobby Gene Hargett

William Paul Hopkins  
 Tommy Millard Ross  
 James Woodrow Shepherd  
 Donald Albert Stone

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### MASTER OF ARTS

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 Georganne L. Beaumont  
 Randel J. Blankenship  
 Ora Lee Hill Bomar  
 Eugene Craven Calloway  
 Samuel H. Campbell  
 Louise Nunn Clarke  
 Rosalind T. Coker  
 Thomas Wayne Conner  
 Pauline Tracy Corbitt  
 Barbara Houston Cowell  
 Odelle H. Eastwood  
 Mary Mason Englert  
 Elizabeth McCord Ferree  
 Fred Lee Fiddler  
 Elizabeth Dunn Fisher  
 Martha Dometra Foster  
 Louise Clare Fracchia  
 Irene Smith Frey  
 Mattie Lee Gandy  
 James B. Garner  
 Sherry Ann Gibson  
 Waurene Weatherly Going  
 Patrick L. Gore

John C. Graves  
 Margaret McCoy Hayne  
 Miriam Dean Heard  
 William Lloyd Jones  
 Barbara Dukes Kennedy  
 Lawrence Carl Long  
 Hettie McCollum  
 Martha Berniece McKelroy  
 Ella Louise Austin McPeake  
 Nancy Louise Martin  
 Gene H. Meadows  
 Della May Morris  
 Joseph Raymond Morton  
 Ernest F. Murdaugh, Jr.  
 Erlend R. Nichols  
 Doris Jeanne Nimmo  
 Morris Eugene Olds  
 Ruth H. O'Donnell  
 Cathrine Pedigo Petty  
 Charles A. Phillips  
 Jennie Lou Johnson Phillips  
 Franklin Searcy Price  
 Elizabeth Ann Rodgers  
 Leroy Richard Sholly  
 Rose Marie Hall Sloman

Harriet Dezer Smith  
Martha Jane Smith  
Mary E. Hollan Smith  
Howard Grantland Stephens  
Johnnie Brown Stegall  
William Pettingill Thompson  
Mary R. Turner  
Joseph Woodson Vinson

Edward E. Wallen  
Jack A. Walz  
John Herring Williford, Jr.  
Mary Louise Nichols Williford  
James Paul Williams  
Jesse Leland Wingo  
Sara R. Witherspoon  
Gladys A. Woodard

DEPARTMENT OF AIR SCIENCE  
AFROTC DETACHMENT NR 785

CANDIDATES FOR AIR FORCE COMMISSIONS

August 14, 1959

Bennie W. Forrester  
Carl A. Fronabarger  
John A. Pinkston  
James H. Wood

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